

# Missouri Assessment Program

## *End-of-Course Assessments*



## *Examiner's Manual*

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**This *Examiner's Manual* is NOT a secure document. All administrators should read this manual before administering the test.**

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1.0 Change Log

Date Updated	Description	Version
1/29/24	Initial posting	1

Table 1.1

## 2.0 About the Assessment

The *Examiner's Manual* provides detailed instructions for administering the Missouri Assessment Program (MAP) End-of-Course (EOC) Assessments. The manual includes instructions for test preparation, scripts for administering the tests, and post-test administration procedures. Test Examiners (TEs) should thoroughly read this manual and view trainings before administering the tests.

The EOC Assessments are yearly tests that measure specific skills defined for each grade based on the Missouri Learning Standards. When a student masters the content associated with a particular course, the associated EOC Assessment can be administered regardless of the student's grade level. The responsibility and authority for testing students belongs to the school district.

### 2.1 Design of the Assessments

- The Missouri State Board of Education identified the following purposes for the EOC Assessments:
  - Measuring and reflecting student mastery toward post-secondary readiness
  - Identifying students' strengths and weaknesses
  - Communicating expectations for all students
  - Serving as the basis for state and national accountability plans
  - Evaluating programs
  - Providing professional development for teachers
- The EOC Assessments are designed to adapt testing to the needs of Missouri districts, schools, teachers, and students, while meeting state and federal requirements.
- The Missouri Department of Elementary and Secondary Education (DESE) uses the information obtained through the EOC Assessments to monitor the progress of Missouri's students in meeting the Missouri Learning Standards, to inform the public and the state legislature about students' performance, and to help make informed decisions about educational issues.
- Data Recognition Corporation (DRC) and DESE are collaborating to deliver Missouri's Spring 2024 EOC Assessments. Missouri educators will use DRC's INSIGHT Portal online platform for enrollment and test administration and DRC INSIGHT for test delivery. DRC will also provide handscoring and reporting services. These cooperative efforts and systems comprise a fully integrated assessment platform to meet the needs of school districts, educators, students, and other Missouri stakeholders.

- The EOC Assessments include ten assessments – four are required for students to take prior to graduation. Personal Finance has separate accountability rules from the other assessments.

Required	Optional
Algebra I Biology English II Government	Algebra II American History English I Geometry Physical Science
<b>Personal Finance</b>	
<ul style="list-style-type: none"> <li>For students who are receiving Personal Finance credit from embedded coursework, the assessment is <b>REQUIRED</b>. The pass rate is the district's decision.</li> <li>For students attempting to "test out" and receive Personal Finance credit toward graduation, the assessment is <b>REQUIRED</b>. Students must attain a score of 90% or higher to receive Personal Finance credit.</li> <li>For students who are enrolled in a stand-alone Personal Finance course, the assessment is <b>OPTIONAL</b>. Participation, however, permits the district to evaluate student achievement with an assessment fully aligned to state standards.</li> </ul>	

Table 2.1

- The English Language Arts (ELA) Assessments consist of two sessions. The first session contains selected-response items, technology-enhanced items, and listening passages. The second session contains one passage set with a passage-based writing prompt that is scored with a ten-point rubric. English I and English II scoring rubrics are posted on the DESE website at <https://dese.mo.gov/quality-schools/assessment/end-course>.
- The Mathematics Assessment consists of two sessions. The first session contains selected-response, constructed-response, and technology-enhanced items. The second session contains a performance event (PE).
- The Science and Social Studies Assessments consist of single sessions that contain selected-response, constructed-response, and technology-enhanced items.
- The Personal Finance Assessment consists of a single session of multiple-choice items.
- Specifics about timing guidelines for all content areas can be found in section 2.5 and additional information on item types can be found in section 2.4.
- All EOC Assessments are available only in DRC INSIGHT, the secure online browser, unless a Large Print, Braille, or Paper Based edition is required by the student as an accommodation. **For students needing one of these versions, test examiners will be responsible for transcribing student responses into DRC INSIGHT.**

## 2.2 Changes to the Assessment

There are no changes to the assessment for the Spring 2024 school year.

- Missouri educators will use DRC’s INSIGHT Portal online platform for enrollment and test administration and DRC INSIGHT for test delivery.

## 2.3 Glossary of Terms

Term	Description
Accommodations	Changes in procedures or materials that increase equitable access to the EOC Assessments. Assessment accommodations allow students to access assessment content to show what they know and can do. Accommodations are available for students with documented Individualized Education Programs (IEPs) or 504 Plans.
Break/Pause	Action taken by a student or Test Examiner (TE) to temporarily halt the test at any time, as needed. The online assessment provides an opportunity to pause the test for up to 20 minutes.
Constructed-Response Item Type	Test questions that require students to provide or input their response or responses using a keyboard or keypad. This type includes <b>short answer/text input, writing prompts, and keypad input</b> items.
DRC INSIGHT	The secure, browser-based test engine for the EOC Assessments.
Item	A test question or stimulus presented to a student to elicit a response.
Online Tools Training (OTTs)	The OTTs allow students to become familiar with testing on a computer/device and to experiment with the features available during an actual test. The OTT is NOT designed to demonstrate complete coverage of the tested content, and it is NOT scored. Rather, items have been chosen to demonstrate online assessment features and uses.
Performance Event	Performance Events (PE) are included in the EOC Mathematics Assessments. The PEs are designed to provide students with an opportunity to demonstrate their ability to apply their knowledge and higher-order thinking skills to explore and analyze a complex scenario. A performance event may contain a variety of item types.
Portal	DRC’s online administrative platform from which district personnel will manage the assessments.
Selected-Response Item Type	Test questions that require students to respond to a stem by selecting an appropriate response or responses, usually from answers provided. This type includes <b>multiple-choice, matching, multi-select, and evidence-based selected-response</b> items.



Term	Description
<b>Stimulus/Stimuli</b>	Material or materials used in the test context, which form the basis for assessing the knowledge and skills of students. Many items/tasks for the assessments include a stimulus along with a set of questions to which the student responds. Examples of stimuli include, but are not limited to, traditional reading passages/texts viewed on a computer screen, images with audio presentations, and simulated web pages.
<b>Technology-Enhanced Items</b>	Test questions that capitalize on technology to collect evidence through a non-traditional response type. This item type includes <b>drag and drop, drop-down menu, matching, hot spots, graphing, bar graphing, line graphing, number lines, line plots, clock input, and angle drawing.</b>
<b>Tutorials</b>	Tutorials use pictures, motion, and sound to present visual and verbal descriptions of the properties and features of the DRC INSIGHT online testing system.
<b>Universal Tools</b>	Universal tools are available to students based on student preference and selection. Some tools, such as a ruler and sticky notes, are embedded in the online system, while others, such as a physical thesaurus and scratch paper, are external to the system. The availability of particular universal tools varies by item.
<b>Writing Prompt</b>	A special type of item that appears in the ELA Assessments that requires students to demonstrate their writing proficiency via an open-ended writing prompt.

Table 2.2

## 2.4 Item Types

As students engage with the online EOC Assessments through DRC INSIGHT, they will be asked test questions that require them to use technology to respond in several ways, some of which may be new to the test-takers. The following table lists the different item types and briefly describes each one. The Online Tools Training (OTT) and Tutorials provide an opportunity to see examples of the item types administered on the assessments.

Item Type	How to Respond	ELA	Math	Science	Social Studies	Personal Finance
Drag and Drop	Click and drag an object to the appropriate location in the response area.	✓	✓	✓	✓	
Drop-Down Menu	Select an answer from a drop-down menu.	✓	✓	✓	✓	
Evidence-Based Selected-Response (EBSR), Multi-Part Items	This item type has two parts. Each part may consist of any of the other item types.	✓	✓	✓	✓	
Graphing on Coordinate Grid	Plot points and/or draw lines in the response area. Use the keyboard to enter labels if required.		✓			
Keypad Input	Select buttons representing numbers and mathematics symbols to create a numeric response or equation.		✓			
Matching (with connecting lines)	Select an option from the first column and then select the corresponding option(s) from the second column to create a line between them.	✓	✓	✓	✓	
Matching Table (with a variation True/False or Yes/No)	Select the checkbox(es) corresponding to an option in a table cell.	✓	✓	✓	✓	
Multiple Choice	Select the radio button corresponding to one of four options. Select only one option.	✓	✓	✓	✓	✓

Item Type	How to Respond	ELA	Math	Science	Social Studies	Personal Finance
Multi-Select	Select a radio button corresponding to an option. Mark one or more options.	✓	✓	✓	✓	
Text Highlight	Highlight an option by selecting it.	✓			✓	
Text Input/ Constructed Response/ Writing Prompt	Respond via keyboard entry. Science and Math may include an Equation Builder. English and Social Studies include text formatting buttons.	✓	✓	✓	✓	

Table 2.3

## 2.5 Timing Guidelines

Timing guidelines are estimates of how long it will take students to complete each component of the assessment. Some students may complete the assessment in times that vary from the recommended durations. Districts should plan for flexibility in their schedules to accommodate students that may take more time than noted. This might include moving students taking longer than expected to another room to finish or allowing students to move directly to their next class rather than holding students until all have finished.

There is no time limit for any assessment.

The provided times do not include time needed to start computers, log in students, go through directions, etc. They also do not include time for students to complete the OTTs or view the tutorials.

Headphones are required for all students using text-to-speech.

### Spring 2024 Timing Guidelines – EOC

Assessment	Session 1	Session 2
English I	<b>100–120 minutes</b> <ul style="list-style-type: none"> <li>Listening Items – Headphones required</li> <li>Dictionary use is NOT permitted</li> <li>Thesaurus use is NOT permitted</li> <li>Grammar Handbook use is NOT permitted</li> </ul>	<b>90–110 minutes</b> <ul style="list-style-type: none"> <li>Writing Prompt</li> <li>Dictionary use is permitted</li> <li>Thesaurus use is permitted</li> <li>Grammar Handbook use is permitted</li> </ul>
English II	<b>100–120 minutes</b> <ul style="list-style-type: none"> <li>Listening Items – Headphones required</li> <li>Dictionary use is NOT permitted</li> <li>Thesaurus use is NOT permitted</li> <li>Grammar Handbook use is NOT permitted</li> </ul>	<b>90–110 minutes</b> <ul style="list-style-type: none"> <li>Writing Prompt</li> <li>Dictionary use is permitted</li> <li>Thesaurus use is permitted</li> <li>Grammar Handbook use is permitted</li> </ul>
Algebra I	<b>90–110 minutes</b> <ul style="list-style-type: none"> <li>Calculator use is permitted</li> </ul>	<b>90–110 minutes</b> <ul style="list-style-type: none"> <li>Performance Event</li> <li>Calculator use is permitted</li> </ul>
Algebra II	<b>90–110 minutes</b> <ul style="list-style-type: none"> <li>Calculator use is permitted</li> </ul>	<b>90–110 minutes</b> <ul style="list-style-type: none"> <li>Performance Event</li> <li>Calculator use is permitted</li> </ul>
Geometry	<b>90–110 minutes</b> <ul style="list-style-type: none"> <li>Calculator use is permitted</li> </ul>	<b>90–110 minutes</b> <ul style="list-style-type: none"> <li>Performance Event</li> <li>Calculator use is permitted</li> </ul>
Biology	<b>60–80 minutes</b> <ul style="list-style-type: none"> <li>Calculator use is permitted</li> </ul>	
Physical Science	<b>60–80 minutes</b> <ul style="list-style-type: none"> <li>Calculator use is permitted</li> </ul>	
American History	<b>60–80 minutes</b>	
Government	<b>60–80 minutes</b>	
Personal Finance	<b>60–80 minutes</b> <ul style="list-style-type: none"> <li>Calculator use is permitted</li> </ul>	

Table 2.4

## 2.6 Scheduling The Assessment

When setting the testing schedule, here are some points to remember:

- Ensure the secure browser is available on all workstations.
- Assessments can be taken during the hours of 6:30 a.m. through 10 p.m.
- Ensure there is enough time for students to finish testing at the end of the day.
- Within each test there are sessions. A student may not return to a session once it has been completed and submitted.
- All students must finish testing before the district administration window officially closes. All assessments will automatically end at 10 p.m. on the last day of the scheduled district administration window, even if the student has not finished.
- Based on student need, students are not required to complete a single session of an assessment on the same day or in the same sitting, although it is recommended.
- Remember that the timing guidelines presented by DESE are simply averages. Some students may take less or more time than the presented time. Have a plan ready for these situations. This might include moving students taking longer than expected to another room to finish or allowing students to move directly to their next class rather than holding students until all have finished.
- For the performance events and writing prompts, students may be best served by sequential, uninterrupted time that may exceed the time allotted in a student's schedule.
- Minimize the amount of time between beginning and completing each test within a content area.
- Breaks can be provided during the test session using the software's "Pause" feature. If the test is paused for more than 20 minutes, the student will need to log back into the session.
- Parents and guardians should be informed of the district EOC Assessment schedule so they can help ensure their students are present on the day(s) of testing (without scheduled appointments or vacation days during the testing window) and prepared with the proper materials that may not be provided by the district.

## 2.7 Required/Allowed Materials

- A workstation with Internet access, a monitor, mouse/touchpad, and keyboard is required for each student, unless they are testing on a tablet. For information about system requirements, log into the Portal, go to My Applications>General Information and select the Downloads tab. At the bottom of the page, select the View System Requirements button.
- Student test tickets are required to login and take the assessment. The ticket provides secure login credentials (i.e. username and password) required for the student to use the testing software. Districts may choose to print test tickets on a full sheet of paper and have the student use that as scratch paper for the assessment.
- Headphones are required for session 1 of English I and English II. Headphones are also required for any content/session in which the student is using text-to-speech.

- Scratch paper and grid/graph paper are allowable for all assessments.
- Writer's Checklists are available in the DRC INSIGHT platform during the writing prompt in session 2 of English I and English II. Physical copies may also be given to students. They may be copied from the appendices of this manual. The Writer's Checklist can also be printed from the Documents page of the Portal at <https://mo.drccdirect.com>.
- Mathematics Reference Sheets, the Periodic Table of Elements, and the mRNA Codon Wheel are available in the DRC INSIGHT platform at the appropriate assessment for students to access. Physical copies may also be given to students. They may be copied from the appendices of this manual. Reference sheets can also be printed from the Documents page of the Portal at <https://mo.drccdirect.com>.
- During online testing, all students may have access to a printed list of the keyboard shortcuts and icons available in DRC INSIGHT. The list may be printed from the appendices of this manual. The list of keyboard shortcuts and icons can also be printed from the Documents page of the Portal at <https://mo.drccdirect.com>.

## 2.8 Dictionary/Thesaurus/Grammar Handbook

- An English dictionary may only be used on the ELA writing prompt in session 2 of English I and English II. An electronic English dictionary is available in the DRC INSIGHT platform to use on the writing prompt. A physical dictionary may also be provided to students for use on the writing prompt.
- English Learners (EL) may have access to a physical bilingual dictionary for use only on the ELA writing prompt in session 2 of English I and English II. If the bilingual dictionary is electronic, it may not connect to the internet. Mark code S431 in the Portal for any student using a bilingual dictionary.
- A thesaurus may only be used on the ELA writing prompt in session 2 of English I and English II. An electronic thesaurus is available in the DRC INSIGHT platform to use on the writing prompt. A physical thesaurus may also be provided to students for use on the writing prompt.
- A physical grammar handbook may only be used on the ELA writing prompt in session 2 of English I and English II. If the grammar handbook is electronic, it may not connect to the internet. The grammar handbook must be one that is published—it cannot be a district, school or classroom created handbook.

## 2.9 Calculators

- Use of a calculator is allowed on any of the Mathematics assessments. Students can use the embedded electronic calculator or a physical calculator.
- Use of a calculator is allowed on the Personal Finance assessment. Students can use the embedded electronic calculator or a physical calculator.
- Use of a calculator is allowed on the Physical Science assessment. Students can use the embedded electronic calculator or a physical calculator.
- A physical calculator is permitted on the Biology assessment.

- Calculators cannot contain stored equations or functions at the time of the assessment. Test Examiners are responsible for ensuring and verifying that any calculator with the ability to store functions and equations have the memory cleared before and after each assessment.
- Calculators cannot have Internet connectivity or be able to connect to anyone inside or outside the classroom during testing. Students cannot use a calculator on a laptop or other portable computer, pocket organizer, cell phone, watch, device with a typewriter-style or QWERTY keyboard, electronic writing pad, or pen-input device unless a particular assistive device is required for a student and is specified on their IEP.

## 2.10 Prohibited Materials

Electronic devices, including any portable device that can connect to the Internet or to anyone inside or outside of the classroom, must not be accessible during the testing sessions. Such items include, but are not limited to:

- cellular/mobile phones
- smart watches
- electronic music players
- digital cameras
- handheld scanners
- portable gaming devices
- any device that can connect to the Internet

## 3.0 Test Examiner Responsibilities

All Test Examiners are responsible for the following:

- Ensure testing materials are secure at all times. **Both written and verbal discussion of specific EOC Assessment items breach the security and integrity of the test.** Discussion between Test Examiners, proctors, translators, or any district staff regarding test items is not permitted.
- Ensure any additional testing materials or tools are available or provided, such as:
  - Scratch, grid, and graph paper
  - Braille paper (if provided)
  - Physical copies of Reference Sheets
  - Either physical copies or approved electronic versions of dictionaries, thesauruses, or grammar books (see the Universal Tools section for more information)
- If the student is taking the session with listening items via Large Print, Braille, or Paper Based, ensure you have a printed version of the ELA Listening Scripts. Talk with your STC to get a copy.
- After testing is complete:
  - Check that tests have been submitted (if permitted).
  - Check that tests are closed in the system (if permitted).
  - Collect the Large Print, Braille, and/or Paper Based materials from the students, and prepare materials for return to the STC.
  - Transcribe Large Print, Braille, and Paper Based edition responses into DRC INSIGHT (if permitted).
  - Contact the STC for guidance regarding the handling of any contaminated test materials.
  - Collect all draft, scratch, grid, graph, or Braille paper and return all used materials to the DTC/STC for secure shredding.

### 3.1 Avoiding Common Quality Assurance Issues

- Prior to assessing students, schools need to ensure that rooms being used for assessment are appropriate testing environments.
- The testing room should be free from content/process aides. These should either be taken off the walls or covered up. If you are questioning if you should cover something up, err on the side of caution and cover it.
- The testing room should be set up to curb cheating. For example, if students are testing close together, dividers may be used between monitors so that students cannot see their neighbor's screen.
- Signage should be placed on the door to indicate that testing is occurring so that disturbances are kept to a minimum.
- Test Examiners should ensure they are aware of which tools/accommodations students have and how those tools/accommodations work. For example, Test Examiners should be aware of which sessions a dictionary is allowed on.



- Districts/schools should have a cell phone policy – both for students and for Test Examiners.
- Examiners should ensure that students do not have inappropriate electronics such as video game systems, smart watches or music players.
- Examiners should ensure that students do not have access to inappropriate testing aids such as classroom notes. Examiners should have students place any such aids in their backpack or locker prior to testing.
- Examiners should ensure that if physical calculators are being used that the memory is cleared prior to and immediately after testing.
- Physical test materials – test tickets and paper, large print and Braille assessments – should be kept secure at all times when not being used. Materials should not be left out on desks, in a drawer or closet, etc. Follow the school procedure for checking test materials in and out. Anyone handling the physical materials should be aware of the check-in and check-out procedure.
- Test coordinators should ensure that scratch/grid/graph paper is collected immediately and securely destroyed. Test Examiners should not review student work on scratch/grid/graph paper.

### 3.2 Test Security

Test security and ethical testing practices are essential for valid and reliable results. A test security policy must be in place for each district and charter school. The test security policy should be placed in the District's Assessment Plan, which is approved by the local school board annually. The accurate assessment of student achievement is a critical component of the educational process in Missouri. It is the responsibility of everyone involved in the assessment process to understand the security measures in place to avoid any intentional or unintentional unethical behavior by students or staff members. Administrators and Test Examiners are responsible for reporting any of these behaviors to district administration and/or to the DESE Assessment Section at 573-751-3545 or [assessment@dese.mo.gov](mailto:assessment@dese.mo.gov).

Although not required, DESE recommends that districts provide a copy of the district's test security policy to all staff during training. Additionally, DESE recommends that districts have staff sign a statement that acknowledges that they both have read and understand the district test security policies. More information on test security guidelines and a sample test security policy are available on the DESE assessment page at <https://dese.mo.gov/quality-schools/assessment>.

District and School Test Coordinators, Test Examiners, translators, proctors, and any other district staff who have testing responsibilities must follow test security procedures. The tests **must not** be read, scored, reviewed, photocopied, duplicated, scanned, transported by students, photographed, texted, or made accessible to personnel not responsible for testing. **Both written and/or verbal discussion of specific EOC Assessment items breach the security and integrity of the test and may result in an invalidation or loss of scores for accountability purposes.**

Test items or answers must not be discussed with anyone at any time. Physical test materials—test tickets and Large Print, Braille, and Paper Based assessments—should be kept secure at all times when not being used. They should not be left out on desks, in a

drawer, in a closet, etc. Follow the school procedure for checking test materials in and out. Anyone handling the physical materials should be aware of the check-in and check-out procedure.

**iPad and Tablet Security:** iPads and tablets being used for testing cannot contain stored equations, functions, copied text, or any saved content at the time of the Assessments. Test examiners are responsible for ensuring and verifying that iPads and tablets that have the ability to store or save any content have the clipboards cleared before and after each assessment.

### 3.3 Cell Phone/Smart Watch Policy

As part of your board-approved assessment plan, each district shall have a cell phone/smart watch policy in place that ensures both test security and test validity. The policy should address both students and Test Examiners. Each classroom is expected to follow the district policy.

Some students use their phone to track medical issues, such as blood pressure, heart rate and blood sugar. If the student uses their phone for a medical issue, they can have it in the testing room, but it should be held on to by the Test Examiner or a test proctor and not by the student. The phone should also be set up to not disturb other students by making noise for phone calls, text messages or other non-medical alerts.

## 4.0 Test Preparation

In addition to having covered the course content, students should have experience using their device (e.g., computer, laptop, chromebook, tablet) and should know how to use a mouse/touchpad and keyboard before taking the Assessments. Students testing on a tablet device should have experience with the device in an instructional setting prior to testing. Students and teachers should review the OTTs and Tutorials (available at any time) for the Assessment(s) they will be taking. Online practice forms are also available through DRC INSIGHT. The practice forms mirror the structure and function of the summative EOC Assessments. Districts can administer practice forms to students at any time during the test window.

### 4.1 Tutorials

The Tutorials provide step-by-step instructions on how to navigate the online system and give detailed explanations about the key features of the software. The Tutorials should be reviewed at least once by Test Examiners who will supervise any of the EOC Assessments and by students in advance of their first test day. Allow students to repeat the Tutorials as often as desired and needed.

Students should review the Tutorials before completing the Online Tools Training (OTT). It has been proven beneficial for schools to schedule a Tutorial session for students immediately before at least one OTT session.

If hardware availability is limited, the Tutorials may be presented to school personnel and students in a classroom using a projector and a single Internet connection.

The Tutorials can be accessed via the DRC INSIGHT desktop icon once the testing software has been installed. The Tutorials may also be accessed through the Portal.

### Instructions for Accessing the Tutorials through the Portal

1. Navigate to the Portal, <https://mo.drctdirect.com>. (Login is not required.)
2. Under **My Applications** select **General Information**.
3. Select the **Test Tutorials** tab.
4. Select the **Play Tutorial** action button.

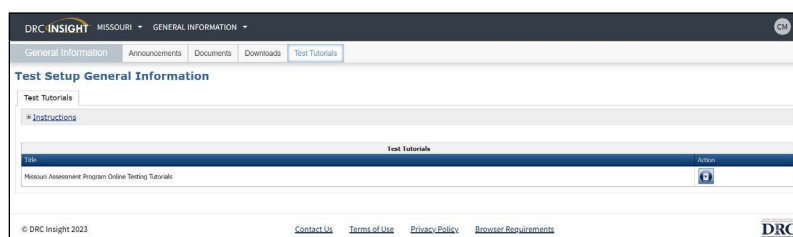


Figure 4.1

The Tutorials walk students through the software and tools that are available. In the Tutorial, the student can move forward as directed or jump around if desired. A menu at the left of the page allows the student to select specific sections for review.

## 4.2 Online Tools Training

In preparation for the test and to expose students to the various item types in each content area (see section 2.4 for item types), it is highly recommended that all students access the Online Tools Training (OTT) for each content area. Each OTT is designed to provide students and educators with an opportunity to quickly familiarize themselves with the software and navigational tools that they will use with the EOC Assessments. The OTT for each content area includes a variety of item types. Even though a student’s test form may not include every item type, the OTT provides an opportunity to practice all item types. The OTTs also include a comprehensive reflection of embedded universal tools and accommodations. The OTTs should also be provided to students with any non-embedded universal tools and accommodations as allowed on the operational assessments.

The OTTs can be accessed via the DRC INSIGHT desktop icon once the testing software has been installed. Non-accommodated versions of the OTTs can be publicly accessed using the Google Chrome browser at <https://wbte.drctedirect.com/MO/portals/mo>.

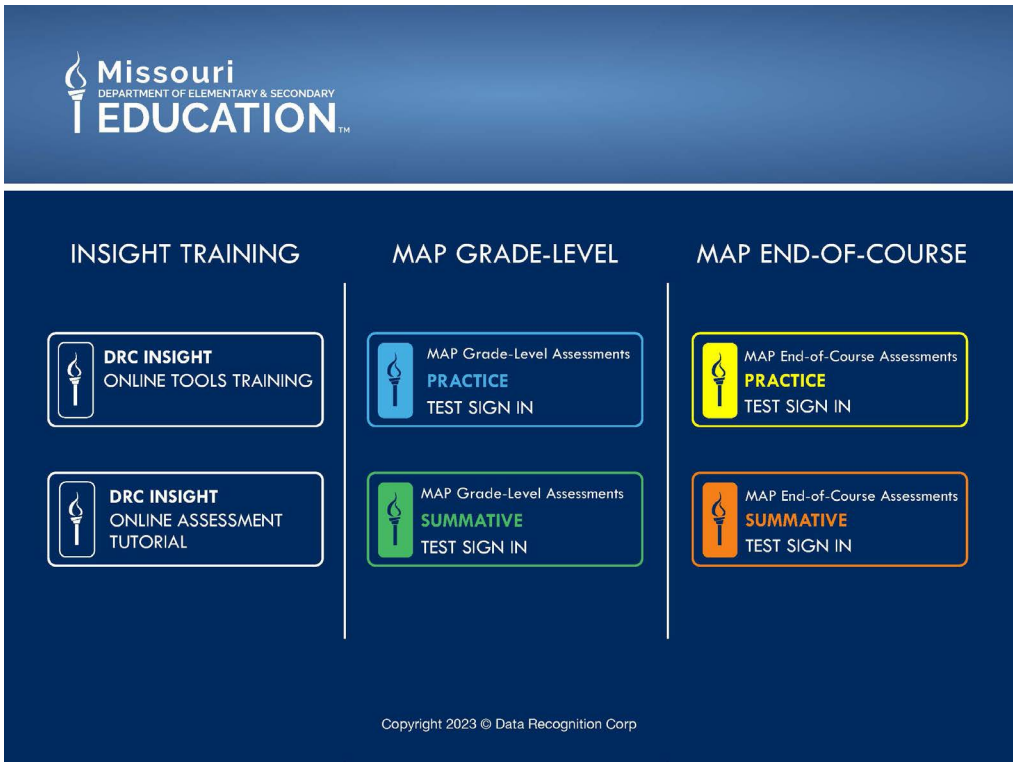


Figure 4.2

## 4.3 List of DRC INSIGHT Keyboard Shortcuts and Icons

During online testing, all students may have access to a printed list of the keyboard shortcuts and icons available` in DRC INSIGHT. The list may be printed from Appendix B of this manual or may be accessed on the **Documents** page of the Portal, <https://mo.drctedirect.com>.

## 4.4 Practice Forms

The Missouri EOC Practice Forms are free assessments designed to mirror the spring summative assessments. Practice forms are available for use in schools and classrooms throughout the school year. The assessments are used to measure specific student strengths, areas of need, skills, and knowledge to help guide instruction.

The following pieces of the practice forms are identical to the spring summative assessments:

- Item Types
- Universal Tools and Accommodations
- Required Materials
- Allowed Materials
- Prohibited Materials
- Test Coordinator and Test Examiner Responsibilities

Districts can have students take the Practice Forms as often and as many times as they would like. Administered at different times during the school year and at the end of the school year, information from the Practice Forms provides teachers with an assessment of the total student learning at a given point or over time.

To ensure the best and most reliable results, the practice form should be administered in the same way as the Spring Summative assessment.

Use the test directions found in section 6.1 of this manual to administer the practice form.

### **Paper/Large Print Versions**

Paper and Large Print versions of the Practice Forms are available for students with that accommodation in their IEP/504 plan or under other special circumstances (translation, testing offsite, etc.).

DTCs should locally generate paper and Large Print versions from the Portal documents. Electronic print/produce-ready files are provided so that districts can locally produce the required quantities to have on hand throughout the school year.

To access the electronic files, sign into the Portal and go to My Applications>General Information>Documents and choose EOC Practice Forms 2024. Choose Accommodated Test Forms as the document type. Then select the Show Documents button.

After testing, student responses for Paper and Large Print editions must be entered into the DRC INSIGHT system for a score to be provided. If scores are not required, then the student responses do not need to be entered into the system.

### **Braille Version**

Braille versions are available for students with that accommodation in their IEP/504 plan. Districts will need to order a Braille kit from DRC. To order the kit, the DTC should sign into the Portal and go to My Applications>Materials>Additional Materials. Select EOC Practice Forms 2024 for the administration and select the Add Order button. In the table, enter the number of Braille kits needed. When finished, click Submit.

After testing, student responses for Braille editions must be entered into the DRC INSIGHT system for a score to be provided. If scores are not required, then the student responses do not need to be entered into the system.

## Practice Test Scoring

Most items are autoscored by the system. Districts will use the Educator Scoring Tool for all the open-ended items. Student test responses will be available for scoring in the Portal within 24 to 48 hours of the student completing the test. Classroom teachers who will need access to Educator Scoring must have access to the Portal and be assigned a test examiner role.

Teachers will locally score student responses to all open-ended test questions using the Educator Scoring functionality via the Portal. Scoring Guides are available for teacher access within the Educator Scoring application. Open-ended test questions include but are not limited to the ELA Writing Prompts, Science and Social Studies constructed-response items, and Math performance events.

See the *Portal Educator Scoring User Guide*, which includes information on how to score student responses using the Educator Scoring tool. The Educator Scoring User Guide can be found on the Portal under My Applications>General Information>Documents.

## Reporting

Districts have access to student results through the Portal Interactive Reporting system. The following reports are available for the Practice Forms: Raw Score Roster, Student Test Item File and Item Summary. Below is a quick description of each report.

**Raw Score Roster:** Results display within 24 hours of student test completion; lists individual's points earned, out of total points possible

**Student Test Item File:** Available as a batch download file; item by item capture of student's responses within the test group; student's total points earned; domain/content alignment to the Missouri Learning Standards EOC Expectations; correct response; total points possible; item type information

**Item Summary:** Item summary data presented in a tabular grid; displays item performance alongside Missouri Learning Standards

The *Portal Interactive Reports User Guide* includes information on accessing reports and data searches. The Interactive Reports User Guide can be found on the Portal under My Applications>General Information>Documents.

## 5.0 Tools/Accommodations

The EOC Assessments provide Universal Tools and Accommodations to help students demonstrate their knowledge of the Missouri Learning Standards.

- Universal Tools are supports that do not change the construct of the test, but may allow students a better opportunity to demonstrate their knowledge. Universal Tools are available to all students taking an assessment, unless specifically noted in the description.
- Accommodations are supports that allow students with specific needs a better opportunity to demonstrate their knowledge. Accommodations must appear in a student's Individualized Education Program (IEP) or 504 Plan.

The selection of appropriate universal tools and accommodations must be done based on the student experience in the classroom. The universal tools and accommodations used on the assessments should be ones with which the student is already familiar with using or are used during regular instruction. A mismatch in the types of supports offered on the assessment from what is used in the classroom on a regular basis can cause significant difficulties for students at the time of testing and potentially could negatively affect student test scores.

Prior to testing, districts should log in to the Portal to check and set universal tools and accommodations for students. DESE recommends setting these at least 48 hours in advance of testing. The choice of some universal tools and accommodations may change login information for the student, so any test tickets printed prior to the marking of these universal tools and accommodations should not be used.

For EOC Assessments, only some universal tools and accommodations appear on student test tickets. The ones that do are Braille, Large Print, Paper Based, Translation, Closed Captioning, Sign Language and Read Aloud.

DESE recommends that districts use the Student Tools/Accommodations Tracking Form (or a district version of it) so that Test Examiners have easy access to which universal tools and accommodations each student should receive during testing. Notes may need to be made to indicate use only on certain sessions for some universal tools and accommodations.

### **Considerations For Students With Disabilities (SWD)**

For SWDs, it is important for IEP teams to identify what universal tools and accommodations are necessary to address a specific student need, and to document those needs on the student IEP. When selecting universal tools and accommodations for a student, care must be taken to ensure that what is chosen for use on state summative assessments mirrors what the student requires to access their regular instructional program. Not using a required support could disadvantage a student who needs such a support to access the material presented on an assessment. Likewise, introducing a new support (one not used otherwise during the student educational experience), could disadvantage a student by adding a learning curve at the time their skills are being assessed. The IEP team makes decisions regarding the universal tools and accommodations needed for instruction and assessment for a student with disabilities.



Note: Accommodations must be outlined as a need on the student's IEP in order to be accessed and used during state assessment administration. It is also important to note that while it is not required for some universal tools to be listed on an IEP for the student to access them, if they are required to meet a student's need based on disability, they should be documented on the IEP.

### **Considerations For English Learners (EL)**

Although there is no mandatory planning document for EL students' needs, the act of discussing needed supports for an assessment is necessary. DESE recommends the following individuals be included when decisions are made about supports EL students may need:

- General education teachers (such as mathematics, science)
- Language educators (including EL/bilingual teachers)
- School and district staff such as counselors, reading specialists, school administrators
- Parents or guardians
- Students

It is particularly important for general education teachers to work with EL staff to meet the linguistic needs of this student group. To ensure that ELs are receiving appropriate supports for the classroom and the assessment, school personnel should consider the following when making decisions:

- Oral English language proficiency level
- English language proficiency literacy level
- Formal education experiences
- Native language literacy skills
- Current language of instruction
- Instructional tasks expected of students to demonstrate proficiency in EOC content in state standards
- Appropriateness of accommodations for particular content areas

### **Administrative Considerations**

Districts and schools have the authority to make administrative determinations for any student as long as test security is not compromised and the requirements are met regarding testing conditions and environment. These individualized administration procedures provide flexibility to schools and districts in determining the conditions under which EOC assessments can be administered most effectively. Administrative considerations do not change what the test items are designed to measure or the way test scores are interpreted.

Examples:

- Familiar Test Administrator
- Specific Seating or Room
- Frequent Breaks or Short Segments
- Noise Buffers (Earmuffs, white noise, etc.)
- Music (While DESE has no rule opposing the playing of music in the classroom during testing, it should not be done during the listening section, or if students are using text-to-speech.). Students should not be listening to music on a personal device via a headset.



## Invalidations

For EOC assessments, no universal tools or accommodations result in an invalidation for the student.

### 5.1 Universal Tools

Universal tools for use on the EOC Assessment are available to ALL STUDENTS unless noted in the description. Please read the full description prior to usage.

Universal tools with a code that begin with the letter S need to be marked in the Portal prior to the assessment. Some universal tools are only for use by English Learner (EL) students (EL students are those coded LEP\_RCV in MOSIS).

Tool	Description	Code
<b>Bilingual Dictionary</b>	<p><b>EL students</b> may have access to a physical Bilingual Dictionary for use <b>ONLY</b> on the sessions of English I and English II that have a writing prompt. If the Bilingual Dictionary is electronic, it may not connect to the Internet.</p> <p>This tool must be chosen in the Portal under student accommodations prior to testing.</p>	S431
<b>Break (Pause)</b>	<p><b>All students</b> may take breaks of up to 20 minutes as needed. Usage of breaks is determined by the test examiner. There is no limit on amount of breaks.</p> <p>The DRC INSIGHT student platform allows <b>all students</b> to pause the online assessment for up to 20 minutes. If the test is paused for more than 20 minutes, the student will have to log back in.</p> <p>If the need arises to move a student from one computer to another, pause the test and choose the exit button. The test will remain incomplete until the student logs back in and completes the test.</p>	N/A
<b>Calculator</b>	<p>The DRC INSIGHT student platform provides <b>all students</b> access to an embedded calculator for use on the Mathematics, Personal Finance, and Physical Science assessments.</p> <p><b>All students</b> may have access to a physical calculator for all Mathematics, Personal Finance, and Science assessments. The memory of the physical calculator must be cleared before and after testing by the test examiner.</p>	N/A
<b>Color Contrast – Online Testing</b>	The DRC INSIGHT student platform provides <b>all students</b> access to adjust background or font color based on student needs or preferences.	N/A
<b>Color Contrast – Paper Testing</b>	<p><b>All students</b> taking the Paper Based assessment may have the test printed in different colors based on student needs or preferences.</p> <p>This tool must be chosen in the Portal under student accommodations prior to testing.</p>	S102

Tool	Description	Code
Color Overlay	<p><b>All students</b> taking the Paper Based assessment may have a color transparency placed over the test presented to them based on student needs or preferences.</p> <p>This tool must be chosen in the Portal under student accommodations prior to testing.</p>	S103
English Dictionary	<p><b>All students</b> may have access to a physical English Dictionary for use <b>ONLY</b> on the sessions of English I and English II that have a writing prompt. If the English Dictionary is electronic, it may not connect to the internet.</p>	N/A
Grammar Handbook	<p><b>All students</b> may have access to a physical Grammar Handbook for use <b>ONLY</b> on the sessions of English I and English II that have a writing prompt. If the Grammar Handbook is electronic, it may not connect to the internet.</p> <p>The Grammar Handbook must be one that is published. It cannot be a district, school or classroom made handbook.</p>	N/A
Graphing Tool	The DRC INSIGHT student platform provides <b>all students</b> access to an embedded graphing tool to graph functions.	N/A
Highlighter	<p>The DRC INSIGHT student platform provides <b>all students</b> access to an embedded highlighter for marking desired text.</p> <p><b>All students</b> may have access to a physical highlighter.</p>	N/A
Line Guide	The DRC INSIGHT student platform provides <b>all students</b> access to an embedded line guide that brings focus to a single line of text.	N/A
Magnification	<p>The DRC INSIGHT student platform provides <b>all students</b> access to magnify the screen by one and a half or two times the standard view.</p> <p><b>All students</b> taking the Paper Based or Large Print assessments may have access to a physical magnifying device.</p>	N/A
Magnification – Assistive Technology	<p><b>Students who have low vision</b> may attempt to use assistive technology software that magnifies the screen beyond the built-in capabilities of the embedded magnifier.</p> <p><i>Please Note: The DRC INSIGHT student platform currently blocks the use of other software. Prior to the use of this accommodation, districts should make an effort to find an alternative solution such as using the built-in magnification, using a larger monitor or projecting the assessment on a screen or wall. Educators having difficulty selecting appropriate magnification or enlargement options should contact DESE Assessment.</i></p> <p>This tool must be chosen in the Portal under student accommodations prior to testing.</p>	S105

Tool	Description	Code
<b>Mark For Review (Flag)</b>	The DRC INSIGHT student platform allows <b>all students</b> to mark an item for review so that they may return to it at a later point in the testing session.	N/A
<b>Masking – Online Testing</b>	The DRC INSIGHT student platform provides <b>all students</b> access to an embedded masking tool to block off content that is not of immediate need or that may be distracting.	N/A
<b>Masking – Paper Testing</b>	<p><b>All students</b> taking the Paper Based or Large Print assessments may use a masking tool (such as blank paper) to block off content that is not of immediate need or that may be distracting.</p> <p>This tool must be chosen in the Portal under student accommodations prior to testing.</p>	S107
<b>Non-Accommodation Paper Based Assessment</b>	<p>Use this tool under the following scenarios:</p> <ul style="list-style-type: none"> <li>• For students without an IEP/504 plan that need to test off-site in a non-district building (e.g. hospital, juvenile facility, etc.), the student may use the Paper Based Assessment.</li> <li>• For <b>EL students</b> who are using Read Aloud – Native Language (S111), where the translator needs access to the assessment prior to administration to conduct translation services. Please see the section on <b>Translation</b> that follows the Tools/Accommodations lists for more information.</li> <li>• For students using Read Aloud – Human Reader (S043) where the examiner needs to read from a paper copy. Please see the section on <b>Read Aloud</b> that follows the Tools/Accommodations lists for more information.</li> </ul> <p><i>Please Note: There is a \$15 charge to the district for each printed Paper Based assessment not required by an IEP.</i></p> <p>This tool must be chosen in the Portal under student accommodations prior to testing.</p>	S112
<b>Protractor</b>	<p>The DRC INSIGHT student platform provides <b>all students</b> access to an embedded protractor on any items where appropriate.</p> <p><b>All students</b> may have access to a physical protractor for use on any assessment. Physical protractors should not be used for measurement purposes of items that appear on screen due to scaling issues.</p>	N/A
<b>Read Aloud</b>	<b>Please see the Read Aloud section after the universal tools/accommodations list.</b>	

Tool	Description	Code
<b>Read Aloud Test To Self</b>	<p><b>All students</b> may read aloud the test to themselves, either in a one-on-one setting or by using a device (such as a whisper phone) that does not disturb other students or allow other students to hear what is being said.</p> <p>In order to ensure that use of this tool does not disturb other students, the use of this tool may need to be paired with the use of separate setting (S501).</p>	N/A
<b>Reference Sheet</b>	<p>The DRC INSIGHT student platform provides <b>all students</b> access to an embedded reference sheet on applicable assessments. Not all assessments have a reference sheet.</p> <p>Students may have physical copies of the reference sheets during testing. Copies of the reference sheets can be found in the appendices of the manuals.</p>	N/A
<b>Ruler</b>	<p>The DRC INSIGHT student platform provides <b>all students</b> access to an embedded ruler on specific items where appropriate.</p> <p><b>All students</b> may have access to a physical ruler for use on any assessment. Physical rulers should not be used for measurement purposes of items that appear on screen due to scaling issues.</p>	N/A
<b>Scratch Paper (Sticky Notes)</b>	<p>The DRC INSIGHT student platform allows <b>all students</b> access to an embedded notepad to make notes about an item.</p> <p><b>All students</b> taking the online, Paper Based, Large Print or Braille assessments may have access to physical scratch paper to make notes about an item. Scratch paper can be blank, ruled, graph or grid paper. Physical scratch paper should be collected and destroyed <b>IMMEDIATELY</b> upon the conclusion of a testing session.</p>	N/A

Tool	Description	Code
Scribe	<p><b>Students who obtain a physical injury prior to testing</b> that prevents them from responding may dictate their responses to a scribe.</p> <p><b>OR</b></p> <p><b>Students with physical disabilities</b> that may prevent them from responding themselves may dictate their responses to a scribe.</p> <p>Examiners acting as a scribe must follow DESE scribing guidelines (<a href="https://dese.mo.gov/media/pdf/asmt-scribing-guidelines">https://dese.mo.gov/media/pdf/asmt-scribing-guidelines</a>).</p> <p><i>Please Note: With the exception of students who obtain a physical injury prior to testing, DESE does not recommend the use of Scribe for students who do not use it as part of their everyday learning in the classroom. The use of Scribe for some students can prove distracting and become a hindrance to student performance. The scribe should be familiar to the student and have scribing experience with the student in some capacity prior to the state assessment.</i></p> <p><i>This tool does NOT need to be marked for transcription of paper, Large Print or Braille Assessments into DRC INSIGHT.</i></p> <p>This tool must be chosen in the Portal under student accommodations prior to testing.</p>	S351
Separate Setting	<p><b>All students</b> may be allowed to test in a separate setting from other students. This includes testing individually or testing as part of a smaller group.</p> <p>This tool must be chosen in the Portal under student accommodations prior to testing.</p>	S501
Strikethrough (Cross Off)	The DRC INSIGHT student platform allows <b>all students</b> access to an embedded tool to cross out answer options. This can help students more easily narrow their options for answering a test question.	N/A
Thesaurus	<b>All students</b> may have access to a physical Thesaurus for use <b>ONLY</b> on the sessions of English I and English II that have a writing prompt. If the Thesaurus is electronic, it may not connect to the internet.	N/A
Translation	<i><b>Please see the Translation section after the universal tools/accommodations list.</b></i>	
Writing Tools	The DRC INSIGHT student platform provides <b>all students</b> access to an embedded set of writing tools on specific items where appropriate. The tools include the ability to bold, italicize and underline text, undo/redos typing, justify text left or center, and cut/copy/paste text the student has typed.	N/A

Table 5.1

## 5.2 Accommodations

Accommodations for use on the EOC Assessment are available only to a student with an IEP/504 plan. Please read the full description prior to usage.

All accommodations need to be marked in the Portal prior to the assessment.

Accommodation	Description	Code
<b>Abacus</b>	<p><b>Students with this accommodation in their IEP/504 plan</b> may have access to an abacus.</p> <p>This accommodation must be chosen in the Portal under student accommodations prior to testing.</p>	A391
<b>Alternate Response Options</b>	<p><b>Students with this accommodation in their IEP/504 plan</b> may respond to items using an alternate option, including specialized keyboards, mice, screens and other adaptive equipment. Prior to the use of this accommodation, districts should attempt to use the equipment with the Online Tools Training and/or Practice Test, to check for compatibility with the summative assessment.</p> <p><i>Please Note: Due to the variety of adaptive equipment available, DRC cannot guarantee support for any specific device. Districts may need to find an alternative solution. The use of adaptive equipment should be familiar to the student and should be something used in the everyday classroom. Contact DRC Customer Support for any questions or assistance to ensure your assistive device is functioning as expected with testing.</i></p> <p>This accommodation must be chosen in the Portal under student accommodations prior to testing.</p>	A441
<b>Braille</b>	<p><b>Students who are blind or have low vision and have this accommodation in their IEP/504 plan</b> may access the assessment via a Braille version. Tactile overlays and graphics tools may be used to assist the student in accessing the content.</p> <p><i>Please Note: Answers from students who access the assessment using the Braille format must be entered into the DRC INSIGHT student platform prior to shipping the Braille assessment back. Please follow the instructions found in the manuals.</i></p> <p>This accommodation must be chosen in the Portal under student accommodations prior to testing.</p>	A012
<b>Closed Captioning</b>	<p><b>Students who are hard of hearing or deaf and have this accommodation in their IEP/504 plan</b> may have access to Closed Captioning for ELA listening passages.</p> <p>This accommodation must be chosen in the Portal under student accommodations prior to testing.</p>	A053

Accommodation	Description	Code
Large Print	<p><b>Students who have low vision and have this accommodation in their IEP/504 plan</b> may access the assessment via a Large Print version.</p> <p><i>Please Note: Answers from students who access the assessment using the Large Print format must be entered into the DRC INSIGHT student platform prior to shipping the Large Print assessment back. Please follow the instructions found in the manuals.</i></p> <p>This accommodation must be chosen in the Portal under student accommodations prior to testing.</p>	A021
Multiplication Table	<p><b>Students with this accommodation in their IEP/504 plan</b> may have access to a single digit multiplication table.</p> <p>This accommodation must be chosen in the Portal under student accommodations prior to testing.</p>	A395
Paper Based Assessment	<p><b>Students with this accommodation in their IEP/504 plan</b> may take the assessment using the Paper Based format.</p> <p><i>Please Note: Answers from students who access the assessment using the Paper Based format must be entered into the DRC INSIGHT student platform prior to shipping the paper assessment back. Please follow the instructions found in the manuals.</i></p> <p>This accommodation must be chosen in the Portal under student accommodations prior to testing.</p>	A102
Read Aloud (ELA Reading Passages)	<b>Please see the Read Aloud section after the universal tools/ accommodations list.</b>	
Sign Language	<p>The DRC INSIGHT student platform provides <b>students who are hard of hearing or deaf and have this accommodation in their IEP/504 plan</b> access to video American Sign Language (ASL) for the ELA listening passages.</p> <p>If the student uses another form of sign language or the preference is for a local translation into ASL, the signing of ELA listening passages will require the download of a script.</p> <p>The accommodation must be chosen in the Portal under student accommodations prior to testing.</p>	A052



Accommodation	Description	Code
<b>Specialized Calculator</b>	<p><b>Students with this accommodation in their IEP/504 plan</b> may have access to a specialized calculator in place of a standard one. Types of specialized calculators include a talking calculator or Braille calculator among others. The memory of the physical calculator must be cleared before and after testing by the test examiner.</p> <p>This accommodation must be chosen in the Portal under student accommodations prior to testing.</p>	A396
<b>Speech-To-Text – Assistive Technology</b>	<p><b>Students with this accommodation in their IEP/504 plan</b> may use that technology in conjunction with the DRC INSIGHT student platform. The software must be provided by the district.</p> <p><i>Please Note: The DRC INSIGHT student platform currently blocks the use of other software. Prior to the use of this accommodation, districts should make an effort to find an alternative solution such as the use of a scribe. If the use of Speech-To-Text software is required, the software must be used on a different device. Answers resulting from the use of the software must be treated securely and must be transcribed into the system. The use of assistive technology software should be familiar to the student and should be software the student uses in the everyday classroom.</i></p> <p>This accommodation must be chosen in the Portal under student accommodations prior to testing.</p>	A352

Table 5.2



## 5.3 Read Aloud

**Read Aloud** is a Universal Tool that allows the student to have test directions and items (questions and answer choices) in all content areas presented to them orally via Text-To-Speech or a Human Reader. The presentation of ELA Reading Passages via **Read Aloud** requires an IEP or 504 plan.

**Read Aloud** is available for students who can benefit from it including those who can decode but have poor comprehension skills and those who simply have not mastered decoding skills. This universal tool is designed for the student who is struggling with reading and is using this as an instructional strategy in the everyday classroom.

### How To Determine If A Student Needs Read Aloud

Here are some questions in helping to make a determination:

- Does this student have an identified reading-based disability that affects the student's decoding, fluency or comprehension skills?
- Is there evaluative information indicating that, even after explicit and systematic reading instruction, the student's disability precludes or severely limits the student's ability to decode print?
- Has the student been provided systematic, explicit, research based reading intervention(s) to improve decoding skills?
- Would the student's functioning reading level affect their performance on a state test that does not measure reading comprehension?
- Is there evidence that the student's access to, and/or performance on, print-based tasks improves when information is presented to the student in auditory formats?
- Is the student provided instructional materials in auditory formats? Does the student use **Read Aloud** during formative assessments or during other assessments? If a student receives **Read Aloud** for instruction but not for formative assessments, it is likely that the student does not need **Read Aloud** for the state content assessments.
- When test items are read aloud for classroom assessments is every item read aloud or only items requested by the student?
- Does someone (e.g., teacher, paraprofessional, another student, and parent) regularly read aloud to the student in school?
- If the student is blind or low vision, has it been determined that their disability precludes or severely limits the ability to access and/or develop proficiency in Braille?
- If the student is hearing impaired, is there evidence demonstrating that the student's vision precludes or severely limits their ability to decode printed text, possibly due to other disabilities or long-term language deprivation in early childhood?

Additionally, time should be set aside to talk to the student about their reading skills and the need for **Read Aloud**. Asking whether it is easier to read for themselves or to listen to someone read may provide an indication that **Read Aloud** may be appropriate. Caution needs to be exercised here, however, because struggling readers may indicate a preference for **Read Aloud** even though they do not understand better when it is provided.

**The test examiner may read one word per sentence to any student, regardless of the use of Read Aloud.**

### **Should My District Assign This To All Students**

**Read Aloud** for statewide testing should only be used for students who truly need it. There are some possible consequences for assigning this universal tool to all students. Some examples include:

- Providing **Read Aloud** to students who do not need it can have negative consequences for instruction and decoding and comprehension skills. For example, some educators might assume that students who receive **Read Aloud** no longer need to be instructed on decoding and fluency skills, which is clearly an inappropriate assumption.
- The use of **Read Aloud** for some students can prove distracting and become a hindrance to student performance.
- The data used when reviewing universal tools and accommodations will not be reflective of your everyday instruction.
- Districts who have attempted this route have found that their top students may not be using their strongest skill of reading and relying solely on what they heard.
- DESE has had parents contact us directly, concerned that the school was allowing or forcing their child to use Text-To-Speech, with the main concern of if the school is really telling them accurately how well their child can read.
- Assigning the tool will also put additional load onto your bandwidth even when the student does not use it.

### **Choosing The Correct Read Aloud Support**

There are multiple ways to use the **Read Aloud** universal tool and accommodation.

Embedded **Text-To-Speech** technology – The computer reads to the student.

**Human Reader** – A human reader should:

- Be trained on the administration, security policies and procedures of the assessment.
- Have extensive practice in providing read aloud support and must be familiar and comfortable with the process before working directly with a student. Ideally, they are familiar with the student, and are typically responsible for providing this support during educational instruction and assessments.
- Read each question exactly as written, as clearly as possible.
- Strive to communicate in a neutral tone and maintain a neutral facial expression and posture.

- Avoid gestures, head movements, or any verbal or non-verbal emphasis on words not otherwise emphasized in text.
- Avoid conversing with the student about test questions, as this would be a violation of test security.
- Not clarify, elaborate, assist, paraphrase, cue a student through uneven voice inflection, interpret or define any items, words, or instructions, as this would be a violation of test security.
- Not spell any words requested by the student.

**Assistive Technology** – Our testing vendor does NOT currently support the use of assistive technology. The DRC INSIGHT student platform currently blocks the use of other software. Prior to the use of assistive technology, districts should make an effort to find an alternative solution, such as using the embedded Text-To-Speech. Students using assistive technology should be familiar with the software and it should be used in the everyday classroom. The software must be provided by the district.

**Native Language** – *Please see the section on Translation that follows this.*

### **Marking Read Aloud Codes**

A student must have the accommodation listed in their IEP/504 plan in order to have reading passages in English Language Arts read aloud. Blind students who do not yet possess adequate Braille skills with this accommodation in their IEP/504 plan may have the ELA Reading Passages read aloud by a human reader.

**In order to be sure that the student correctly receives *Read Aloud*, the tool MUST be marked in the system AT LEAST 48 HOURS PRIOR TO ADMINISTRATION.**

<b><u>READ ALOUD CODES</u></b>		
<b>Universal Tool/Accommodations</b>	<b>Code</b>	<b>Also Mark</b>
Text-To-Speech (Not Including ELA Reading Passages)	S041	
Text-To-Speech (ELA Reading Passages)	A043	S041
Human Reader (Not Including ELA Reading Passages)	S043	
Human Reader (ELA Reading Passages)	A045	S043
Assistive Technology (Not Including ELA Reading Passages)	S042	
Assistive Technology (ELA Reading Passages)	A044	S042
Blind Students (ELA Reading Passages) – All Grades	A046	S043
Native Language – <i>Please see the section on Translation that follows this.</i>		

Table 5.3

## Text-To-Speech

To have items and answer choices read by the test platform, mark **Code S041** for the student(s). If the student has an IEP/504 plan that allows ELA Reading Passages to be read to them, then also mark **Code A043**. Text-to-Speech functionality can be given individually or in a group setting. Students will need to be provided headsets to listen.

## Human Reader – Online Assessment

To have items and answer choices read by a human reader, mark **Code S043** for the student. If the student has an IEP/504 plan that allows ELA Reading Passages to be read to them, also mark **Code A045**.

Human Reader can be done individually or in a small group setting, so mark **Code S501** for separate setting. Assessments can be read either electronically or via a paper copy. If reading electronically, examiners can read directly off the screen of the student or off a second display attached to a system being used by a student.

To get a paper examiner copy to read from, mark **Code S112** for one student. Print a paper copy, and then unmark the code. This will send the student back to an online assessment. After testing is complete, mark that copy as an “Examiner Copy” and send it back to the vendor with the other student paper assessments.

## Human Reader – Paper Assessment

To have items and answer choices read by a human reader, mark **Code S043** for the student. If the student has an IEP/504 plan that allows ELA Reading Passages to be read to them, also mark **Code A045**.

Human Reader can be done individually or in a small group setting, so mark **Code S501** for separate setting. Paper Based assessments can be read either directly off the student’s copy or via examiner paper copy. To get an examiner copy, print the student assessment twice. After testing is complete, mark that copy as an “Examiner Copy” and send it back to the vendor with the other student paper assessments.

## Human Reader – Large Print/Braille Assessment

To have items and answer choices read by a human reader, mark **Code S043** for the student. If the student has an IEP/504 plan that allows ELA Reading Passages to be read to them, also mark **Code A045**.

Human Reader can be done individually or in a small group setting, so mark **Code S501** for separate setting. The Large Print/Braille kits come with a printed test book for the examiner to use. After testing is complete, mark that copy as an “Examiner Copy” and send it back to the vendor with the rest of the kit.

## Assistive Technology

To use assistive technology for Read Aloud, mark **Code S042** for the student. If the student has an IEP/504 plan that allows ELA Reading Passages to be read to them, then also mark **Code A044**. The student should test in a one-on-one setting. **Code S501** should be also marked for separate setting.

## 5.4 Translation

**Translation** for statewide testing should only be used with students who truly need it.

Any English Learner (EL) taking the online, Paper Based, Large Print or Braille assessments may have the test directions and items (questions and answer choices) in all content areas read aloud to them in their native language without an IEP/504 plan. In order to have reading passages in ELA read aloud in their native language, a student would need that accommodation listed in their IEP/504 plan.

Additionally, any EL taking the online, Paper Based, Large Print or Braille assessments may respond to the assessment in their native language. The answers would need to be translated and transcribed into the system.

### How To Determine If The Student Need Translation

Here are some questions you can ask about the student to help make a determination:

- Does the student have an overall WIDA ACCESS score of 3 or lower?
- Has the student attended a school where their first language is the primary language of instruction?
- Has the student ever received instruction in their first language?
- Is the student receiving translation as part of their everyday instruction?
- Does the student perform better when class assignments or assessments are translated?

Additionally, time should be set aside to talk to the student about their reading skills and the need for **Translation**. Asking whether it is easier to read for themselves in English or to listen to someone read in their native language may provide an indication that **Translation** may be appropriate. Caution needs to be exercised here, however, because struggling readers may indicate a preference for **Translation** even though they do not understand better when the accommodation is provided.

### When Using A Translator...

- Translation cannot be provided by any service that requires internet connection. If a translator cannot be found, due to scarcity of the language, contact DESE Assessment for options.
- The translator cannot be a friend or family member of the student.
- The district must train the translator just as they would a test examiner.
- If the translator is not a district employee, a trained examiner from the district must act as proctor.

- Any associated costs involved in translation are paid for by the district. Title III money **CANNOT** be used to hire translators for statewide assessments.
- The district must find and contract with the translator on their own. DESE does not require or promote the use of any individual company. A partial list of companies that provide translation services can be found on the DESE Assessment page.

### Marking Translation Codes

The assessment can only be read to the student in their native language by a human reader. There is no native language Text-To-Speech option.

A student must have the accommodation listed in their IEP/504 plan in order to have reading passages in ELA read aloud in the native language.

Blind EL students who do not yet possess adequate Braille skills with this accommodation in their IEP/504 plan may have the ELA Reading Passages read aloud by a human reader.

<u>TRANSLATION CODES</u>		
Universal Tool/Accommodation	Code	Also Mark
<b>Read Aloud In Native Language (Not Including ELA Reading Passages)</b>  Reading the assessment in a student's Native Language is given individually or in a small group setting, so mark <b>Code S501</b> for separate setting. If you do not read directly off the student's copy, then after testing is complete, mark the copy you read from as an "Examiner Copy" and send it back to the vendor with the other student Paper Based assessments.	S111	S501
<b>Read Aloud In Native Language (ELA Reading Passages)</b>  Reading the assessment in a student's Native Language is given individually or in a small group setting, so mark <b>Code S501</b> for separate setting. If you do not read directly off the student's copy, then after testing is complete, mark the copy you read from as an "Examiner Copy" and send it back to the vendor with the other student Paper Based assessments.	A112	S111
<b>Blind EL Students (ELA Reading Passages)</b>  Reading the assessment in a student's Native Language is given individually or in a small group setting, so mark <b>Code S501</b> for separate setting. The Braille kit includes a Paper Based copy of the assessment for the test examiner to use for Read Aloud.	A046	S043
<b>Translation Of Student Responses (Student Responds In Native Language)</b>  Translating student responses from their Native Language is done in an individual setting, so mark <b>Code S501</b> for separate setting.	S109	

<u>TRANSLATION CODES</u>		
Universal Tool/Accommodation	Code	Also Mark
<p><b>Printing A Paper Copy</b></p> <p>If a translator needs access to the assessment prior to testing to conduct translation services of technical terms, or a paper copy is needed to conduct Read Aloud in Native Language, mark this code in conjunction with the appropriate codes above.</p> <p>Mark <b>Code S112</b> for the student. Print a paper copy, then go in and unmark the code. This will send the student back to an online assessment. After testing is complete, mark that copy as an "Examiner Copy" and send it back to the vendor with the other student paper assessments.</p>	S112	

Table 5.4

## 6.0 Online Testing

Use the following information and script to assist students with the login procedures.

The Test Examiner (TE) should verify the security of the testing environment prior to beginning a test session. TEs must ensure that students do not have access to prohibited devices and materials during testing.

To ensure that all students are tested under the same conditions, the TE should adhere strictly to the script for administering the test. These instructions can be found after the word "SAY" on the following pages. When asked, the TE should answer questions raised by students but should never help the class or individual students with specific test items. The test examiner may read one word per sentence to any student. Otherwise, no test items can be read to any student for any content area, unless specified as an accommodation.

All directions that a TE needs to read to students are indicated by the word "SAY" so they stand out from the regular text. They should be read exactly as they are written, using a natural tone and manner. If the TE makes a mistake in reading a direction, the TE should stop and say, "I made a mistake. Listen again." Then the direction should be reread.

The TE should try to maintain a natural classroom atmosphere during the test administration. Before each test begins, the TE should encourage students to do their best.

For sessions requiring listening devices, including the session with listening items and all sessions where a student is using text-to-speech, please ensure prior to testing that all listening devices are working properly and that the volume is set at an acceptable level.

Before administering the test, make sure to have all student login tickets for the session(s) that are being administered. If any student login tickets are missing, contact the STC.



## Which Tools/Accommodations Appear on Test Tickets

Even when marked in the Portal, not all tools/accommodations will be displayed on test tickets. The following are the only tools and accommodations that will appear on a student test ticket. For descriptions of these Tools/Accommodations, see section 8.0.

<b>Tool/Accommodation</b>	<b>Code</b>	<b>Ticket Abbreviation</b>
<b>Braille</b>	A012	Braille
<b>Large Print</b>	A021	LargePrint
<b>Paper Based Assessment</b>	A102	PaperBased
<b>Sign Language</b>	A052	A052
<b>Closed Captioning</b>	A053	A053
<b>Translation</b>	S109	S109
<b>Read Aloud (Not Including ELA Reading Passages) – Text-To-Speech</b>	S041	TTS
<b>Read Aloud (ELA Reading Passages) – Text-To-Speech</b>	A043	TTSPASSAGE
<b>Read Aloud (Not Including ELA Reading Passages) – Human Reader</b>	S043	S043
<b>Read Aloud (ELA Reading Passages) – Human Reader</b>	A045	A045
<b>Read Aloud (Not Including ELA Reading Passages) – Assistive Technology</b>	S042	S042
<b>Read Aloud (ELA Reading Passages) – Assistive Technology</b>	A044	A044
<b>Read Aloud (Not Including ELA Reading Passages) – Native Language</b>	S111	S111
<b>Read Aloud (ELA Reading Passages) – Native Language</b>	A112	A112
<b>Read Aloud (ELA Reading Passages) – Blind Students</b>	A046	A046

Table 6.1

## 6.1 Online Test Directions

### 1. Distribution of test tickets

*You should have received test tickets for the testing session(s) from your DTC or STC. Before beginning, ensure that you have all of the correct test tickets for the students who will be testing. Note the Test Name and read it aloud where the script states [Test Name].*

*If students are starting a new session:*

**SAY** You are about to take (the) [Test Name].

*If students are resuming a session:*

**SAY** You are about to continue (the) [Test Name].

**I will now hand out a test ticket to each of you. When you receive your test ticket, check that your name appears on the ticket. If your name does not appear, raise your hand.**

*Distribute test tickets to each student, ensuring that each student is given the correct ticket with their name printed on it. Contact your STC or DTC if a ticket is missing or incorrect.*

**Note:** *There are three steps to be completed to get students to the login screen. Districts may choose to perform some or all of the steps for the students before they enter the testing room.*

*The first step (number 2) is starting DRC INSIGHT. The next step (number 3) is choosing the testing program for Missouri. The last step (number 4) is to choose “Test Sign In” for the appropriate assessment (Practice Form or Summative assessment).*

*If any of these steps are executed for the students, skip the SAY portion of the appropriate number and move onto the next number.*

### 2. Directing students to the sign in page

**SAY** Open up DRC INSIGHT Online Assessments.

*Students using a laptop or desktop workstation should double click on the icon. Students using a Chromebook or iPad device should tap on the icon. Help students if they have trouble activating the program. Some devices are configured for multiple assessments. If that is the case, read number 3 below to the students. If not, go to number 4.*



**Figure 6.1**

### 3. Selecting the testing program

**SAY**

On your screen, you will be asked to select your testing program. Select “Missouri.”

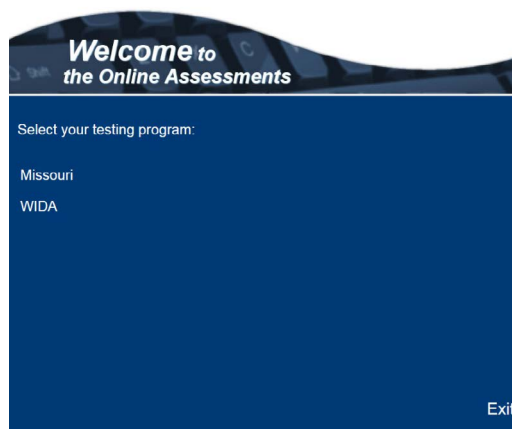


Figure 6.2

### 4. Selecting the assessment

**SAY**

At the top of your screen you should see “Missouri Department of Elementary and Secondary Education.”

*If students will be taking the practice form, direct them to click the words “Practice Form” under the Practice banner. If students will be taking the EOC Summative assessment, direct them to click the words “Test Sign In” under the Summative banner.*

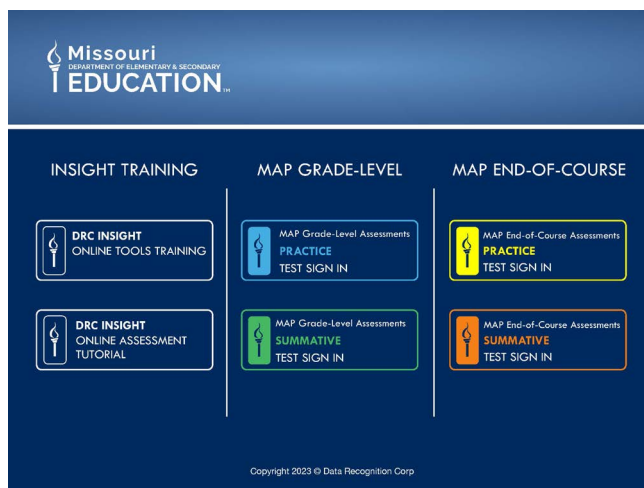
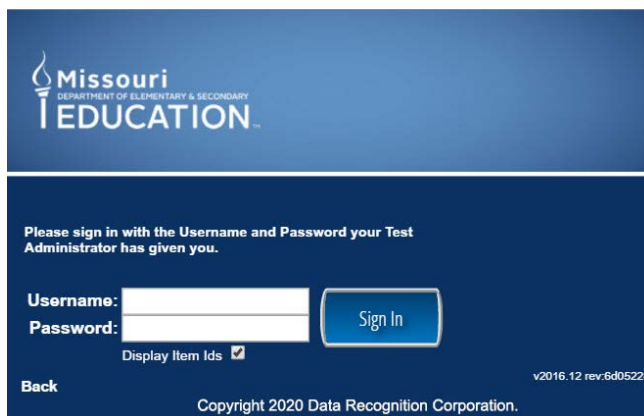


Figure 6.3

## 5. Student Login

**SAY**

This is the Login screen. Type your username and password from your test ticket into the correct boxes on the screen. Then select "Sign In."



The login screen features the Missouri Department of Elementary & Secondary Education logo at the top. Below the logo, it instructs the user to sign in with their test administrator-provided username and password. There are input fields for 'Username:' and 'Password:', followed by a 'Sign In' button. A checkbox for 'Display Item Ids' is checked. A 'Back' link is at the bottom left, and a version number 'v2016.12 rev:6d05228' is at the bottom right. Copyright information for Data Recognition Corporation is at the bottom center.

Figure 6.4

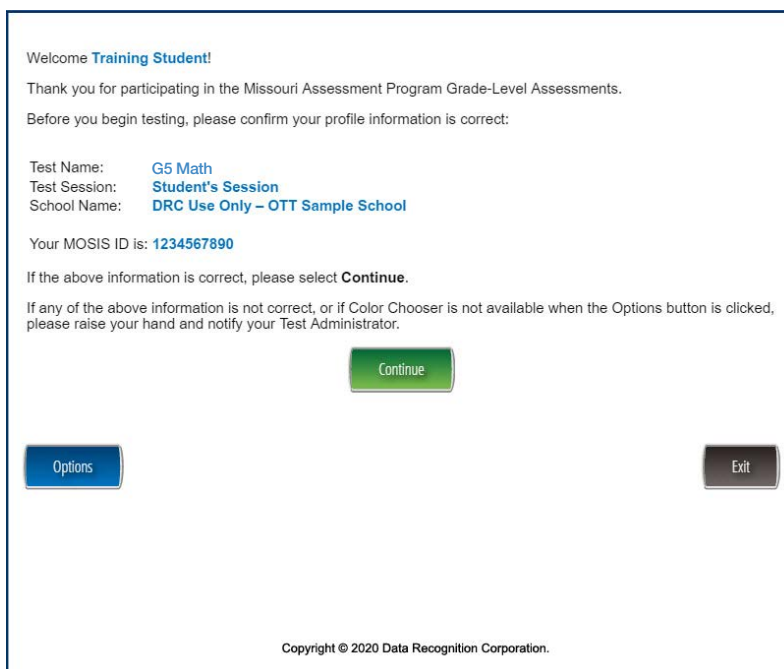
*Test ticket information is unique to each student and each session but is not case sensitive. Assist students as needed; TEs may have to help students type in this information. After the login, make sure all students are on the correct screen. Wait for all students to reach this page.*

## 6. Welcome Screen

**SAY**

This is the Welcome screen. Please check that your name appears at the top of the screen. Check that the test name is [Test Name] and the test session is [Test Session]. Then check that your school is correct. If everything is correct, select "Continue." If your information is not correct, please raise your hand.

*If a student's information is incorrect, the TE should contact the STC and/or the DTC.*



The welcome screen greets the 'Training Student' and thanks them for participating. It asks them to confirm their profile information: Test Name (G5 Math), Test Session (Student's Session), and School Name (DRC Use Only – OTT Sample School). It also displays the MOSIS ID (1234567890). Instructions state to select 'Continue' if the information is correct, or to raise a hand and notify the Test Administrator if it is not. At the bottom, there are 'Options', 'Continue', and 'Exit' buttons. Copyright information for Data Recognition Corporation is at the bottom center.

Figure 6.5

## 7. Choosing the Session

**SAY**

You are now on the screen that shows the name of the test you are scheduled to take. Please select the test link for [Test Session]. If you do not see this, please raise your hand.

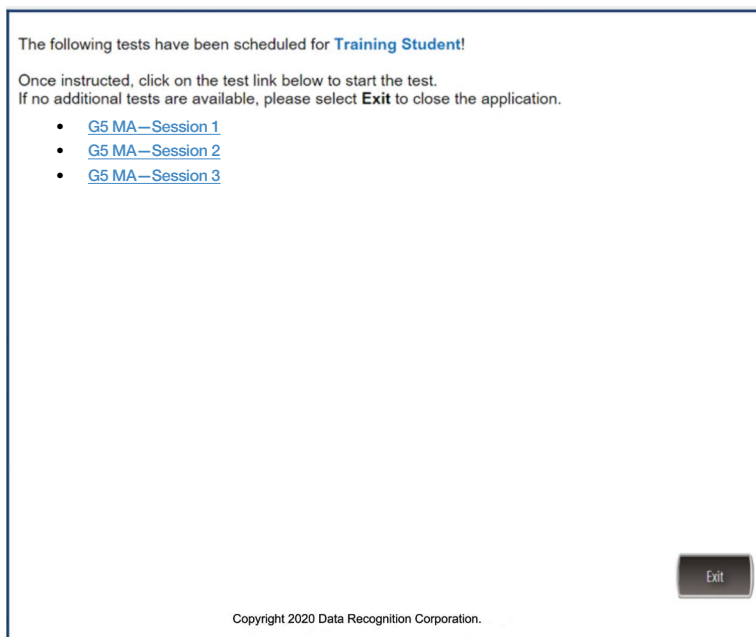


Figure 6.6

## 8. Display Setup and Test Directions

**SAY**

You are now on a screen that is used to make sure your screen is set up correctly. If you do not see three circles, please raise your hand.

*Once you have confirmed that all students have three circles,*

**SAY**

Select the NEXT arrow to continue.

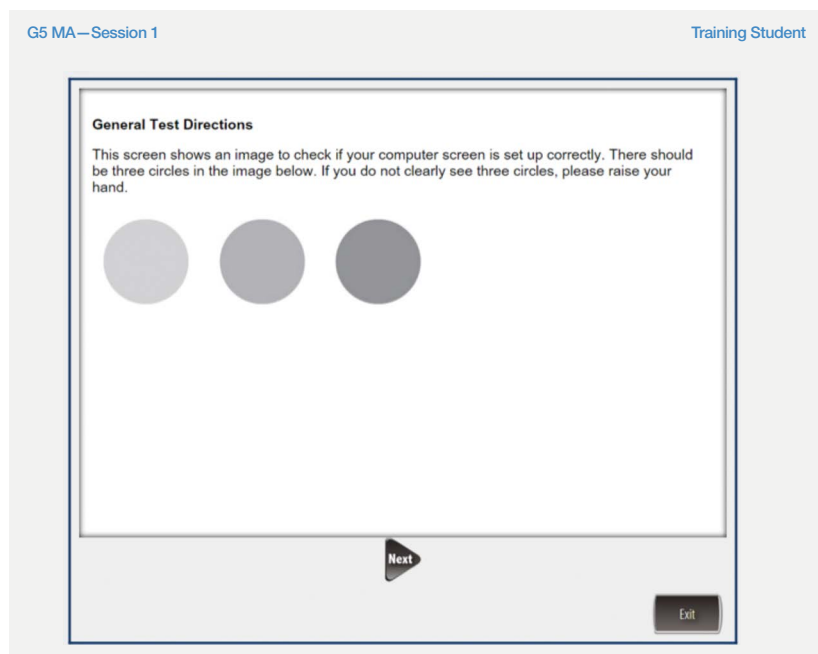


Figure 6.7

**SAY**

The following screens contain the test directions for the test you are taking today. Please read the directions carefully. If you have any questions about the directions, raise your hand. You can find the directions during your test by clicking the HELP button in the top right corner.

*Students may pause their test for up to 20 minutes by using the pause button. If a student needs a break to use the restroom, get a drink, stand and stretch, etc., have them use the pause button. The student should click RESUME when they are ready to start testing again.*

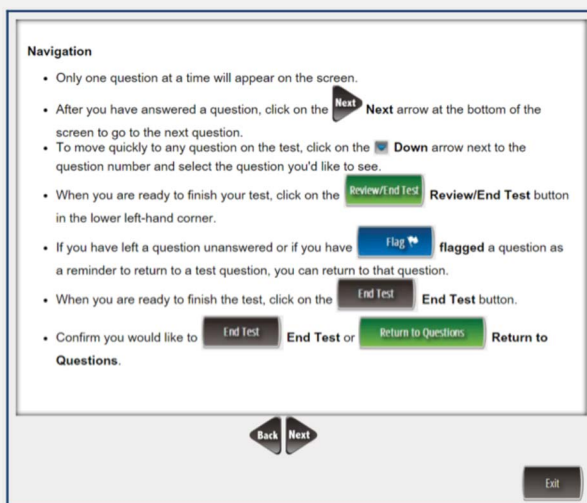


Figure 6.8

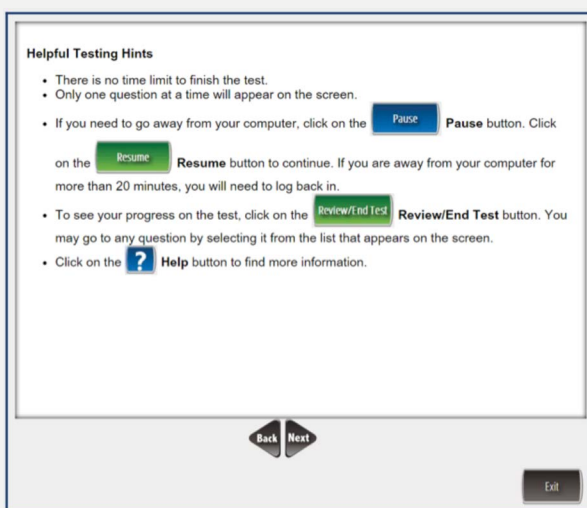


Figure 6.9

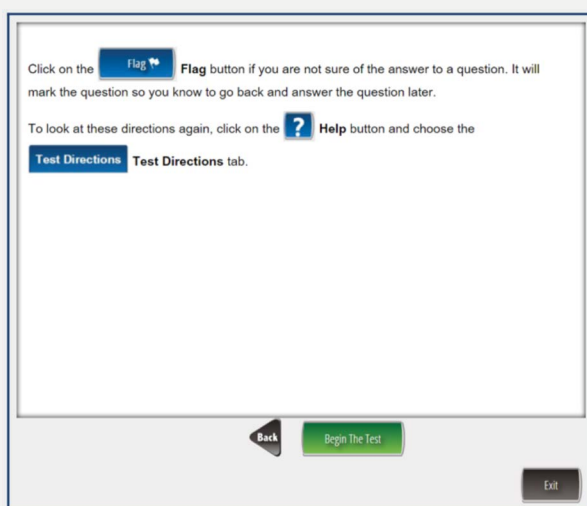


Figure 6.10

## 9. Starting The Test

### **SAY**

Remember that your answers need to be your own work. Please keep your eyes on your own test and remember that there should be no talking.

If you are unsure of an answer, provide what you think is the best answer; there is no penalty for guessing. If you would like to review that answer at a later time, mark the item for review by clicking the FLAG at the bottom of the screen before going on to the next question. Flagging the item will remind you to go back and decide whether or not you want to change the answer.

*Prior to students testing, the district needs to determine if it will require students to raise their hand when they finish testing and get to the Review/End Test screen. If students are required to raise their hand prior to exiting, say both sentences. If not, then only say the second sentence, directing students to begin the test.*

### **SAY**

Once you believe you have finished your test, please raise your hand and I will come over.

When you are ready to begin your test, click **BEGIN THE TEST**.

## 10. The TE monitors student progress.

### Monitoring Test Progress

*Once students have started their tests, the TE should circulate through the room to ensure that all conditions of test security are maintained. If the TE witnesses or suspects the possibility of a test security incident, the STC and DTC should be contacted immediately in accordance with the security guidance provided as part of district training.*

*If a student asks for assistance either in answering an item or manipulating an item type, the TE should let the student know that they should try their best, but that the TE cannot help answer an item.*

### **SAY**

I can't help you with your test. Check the HELP button to read the directions.

*The TE may remind the student to reread the instructions for that item.*



## 11. A student finishes their test session.

After answering the last item in each session, the student will press the Review/End Test button at the bottom left-hand corner of the screen. The student is then presented with a screen prompting them to review answers (marked and unmarked) for all items prior to submitting the test. At that point, the student can either click the Return to Questions button to answer previously unanswered questions/review their answers or press End Test to submit the test. Once the student has pressed on the End Test button, the student must provide a confirmation that they are done.

Please be sure you have answered all of the questions.  
Click on the question line to move to that question.

Question	Question	Question
1 <input checked="" type="checkbox"/>	7 <input type="checkbox"/>	13 <input checked="" type="checkbox"/>
2 <input type="checkbox"/>	8 <input type="checkbox"/>	14 <input type="checkbox"/>
3 <input checked="" type="checkbox"/>	9 <input type="checkbox"/>	15 <input checked="" type="checkbox"/>
4 <input type="checkbox"/>	10 <input type="checkbox"/>	16 <input type="checkbox"/>
5 <input checked="" type="checkbox"/>	11 <input type="checkbox"/>	17 <input type="checkbox"/>
6 <input type="checkbox"/>	12 <input type="checkbox"/>	18 <input type="checkbox"/>

☒ Answered
 ☐ Unanswered
 Flagged

Once you have finished taking the test, click the "End Test" button to end your test.  
To continue testing, click the "Return to Questions" button.

Options Return to Questions End Test

Figure 6.11

If you have required the student to call you over prior to exiting, you may ask the student if they are finished or ask if they want to go back and review their answers (but they are not required to do so). You may not direct them to go back to a specific item.

**STOP**

Are you done with your test?  
Be sure you have answered all of the questions.

To continue testing, select "Return to Review".  
To turn in your test, select "Submit".

Options Return to Review Submit

Figure 6.12

If a student needs additional testing time well beyond other students, you may direct them to pause the test and exit testing so you can either move them or have them continue at another time. See section 6.3 for more information on moving a student.

Once a student has finished, be sure that they have exited the test. TEs should collect the test ticket and all scratch, grid and graph paper. TEs should not review any work on the paper(s).

## 6.2 Testing Over Multiple Days

For some tests, students may be best served by sequential, uninterrupted time that may exceed the time in the regular class schedule.

If the TE intends to administer a session over the course of multiple days for a student or group of students, TEs may ask students to pause and exit after they reach a designated point. For example, TEs may designate a certain amount of time for testing. This guidance may be written on a dry-erase board, interactive white board, chalkboard, or another place that students can easily see.

## 6.3 Moving a Student During an Assessment

Occasionally a student must be moved to a new location to continue testing. In order for the student to continue their test, complete the following steps:

1. Pause and end the student's online assessment. To do so, select the "Pause" button, then select the "Exit" button, and then select the "Yes, Exit" button. (Once the student exits the test, the workstation becomes immediately available for other use.)
2. Escort the student to the new location.
3. Using the login and password from the student's test ticket, log the student in to their assessment at the new workstation to complete the assessment.

## 6.4 Unlocking Tests

A test will become locked when the student ends a test by selecting **Review/End Test, End Test, Submit**. If the student accidentally ends the test instead of the **Pause, Exit, Yes, Exit** to pause the test, the student's test will become locked. The student's test will need to be unlocked before the student can continue testing. Contact the STC to start the process.

## 6.5 Common Technology Issues

### Loss of Internet Connectivity

Student responses are sent to DRC servers frequently, including after each question is answered. If Internet connectivity is lost during testing the student is unable to continue testing until Internet connectivity is regained. When a student's computer/device loses Internet connectivity during testing, DRC INSIGHT has a pop-up error message that will appear on the student's device. This error message is labeled Connection Error, which indicates a loss of internet connection. This error message can indicate other possible issues but is almost always linked to internet connection or configuration issues.

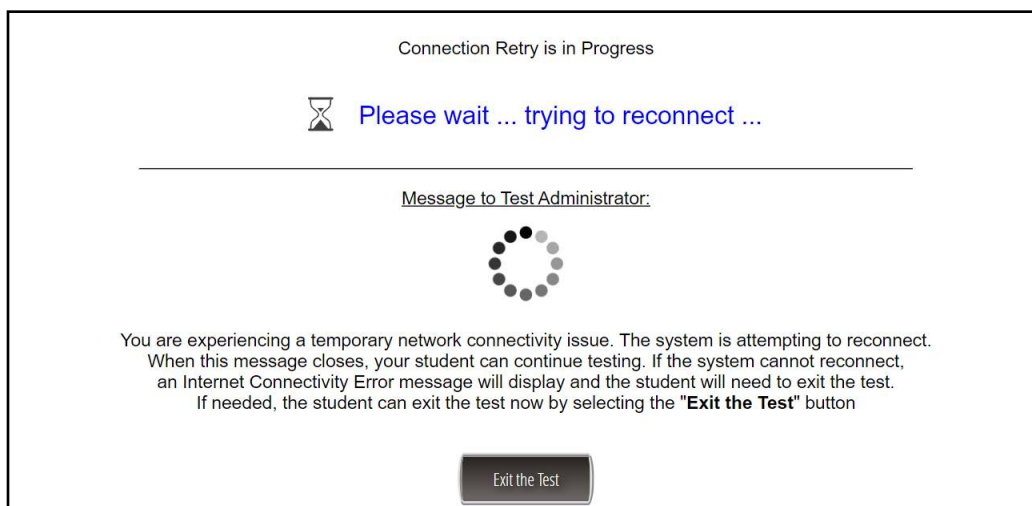


Figure 6.13

There is also the System Readiness Check (a blue check mark that you can click on the bottom left corner of DRC INSIGHT) that checks several parameters including internet connection. Users are encouraged to check this after the application set up is completed for verification.

If internet connectivity is lost, follow your district plan for contacting the STC or IT staff prior to contacting the MAP service line.

## Inactivity

After 20 minutes of inactivity, either with mouse movement or use of keyboard, the DRC INSIGHT application will automatically exit the test. All answers will be saved and the student will be required to sign back in to the test to finish.

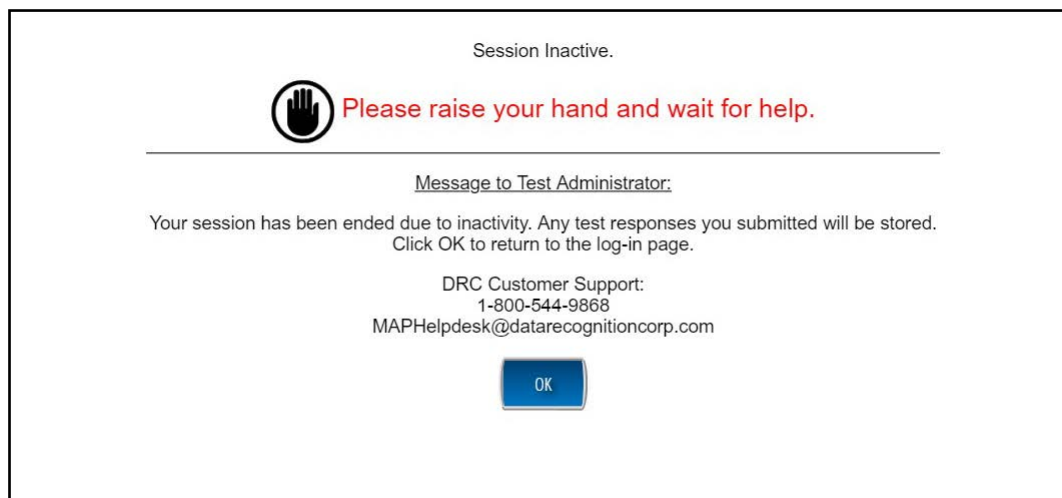


Figure 6.14

## 7.0 Paper Based, Large Print, & Braille Tests

Large Print, Braille, and Paper Based editions of the EOC Assessments are available for students as required in IEPs/504 plans or other special circumstances. Test Examiners will work with the District Test Coordinator to generate Paper Based editions from the Portal (after students are assigned an accommodation). Unique identification numbers will be used to produce barcodes that will be printed onto the Paper Based editions. After testing, student responses for Large Print, Braille, and Paper Based editions must be entered into the DRC INSIGHT system, and all test materials must be collected for return to DRC.

Test Examiners should inventory any physical testing materials received from the test coordinator. Document this information. All materials should be returned to the test coordinator once testing is complete.

### 7.1 Test Directions – Paper Based, Large Print and Braille

Each content and grade has a specific set of directions for the assessment. When you get the physical test book(s), you should also get a copy of the printed test directions from the STC.

Additional Braille instructions are as follows:

- The student's name, Test Examiner's name, district, and school must be printed on the front cover of each Braille test book.
- Because extra time may be needed for administering the Braille version, it is recommended that students be tested individually or in a small group setting.
- When a Braille student responds by pointing to the answers or giving a verbal response in English only, the Test Examiner is permitted during the course of test administration to fill in student responses in the student test book.
- When a Braille student responds by using a Braillewriter or marking answers in the test book, the procedures for transcribing student responses are detailed in section 8.2. In each instance, the Test Examiner must provide written affirmation to the School Test Coordinator that student responses have been completed in the student test book with accuracy. Under no circumstances should a student's answer be altered or edited—to do so is a direct violation of test security.

## 8.0 After Testing

### 8.1 Assemble Materials for Return and for Entry into DRC INSIGHT

After testing has been completed, prepare materials to be returned to the School Test Coordinator. Check test books to make sure there are no sticky notes, staples, pins, paper clips, or tape of any kind on any pages. Check to make sure that no scratch or graph paper was left inside test books. Remove any extraneous material.

### 8.2 Transcription of Large Print, Braille, and Paper Based Editions

After testing, student responses for Large Print, Braille, and Paper Based editions **must** be transcribed into the DRC INSIGHT testing software before the district's test window closes. It is recommended that transcription occur as soon after testing as possible. Talk with your STC to see if you will be completing the transcription process. To transcribe responses requires the Test Examiner or other designated and authorized district or school personnel to log in to DRC INSIGHT using the student's test ticket. Follow these steps to transcribe student answers:

1. In the Portal Test Setup, ensure that the student has been assigned the appropriate accommodation:
  - a. Paper Based Assessment
  - b. Paper Based Braille
  - c. Paper Based Large Print
2. In the Portal Test Setup, assign the student to a test session and print their test ticket. Retain the test ticket rather than distributing it to the student.
3. After the student has completed the test on paper, use a device that has the DRC INSIGHT client software installed and use the student's test ticket to log in to the student's test.
4. Begin transcribing student responses. Once you have finished, select End Test and Submit. The Test Examiner should then return all printed test materials to the STC.

Transcribe the student's responses as faithfully and as completely as possible using the following guidelines:

- Do not transcribe erased or crossed out words or marks.
- If a student's response consists of incomprehensible squiggles, marks, etc., which clearly are not words or word fragments, then leave the item blank.
- If a student's response is wholly or partly illegible, enter "ILLEGIBLE" for the entire response or for the part where applicable.
- If part of a student's response cannot be entered into DRC INSIGHT, then leave that part blank.
- If no part of a student's response can be entered, then leave the entire item blank.
- Additional clarifying notes may be entered as needed if the item type allows text entry.

### 8.3 Contaminated Materials

Test materials are considered **contaminated** due to: a) a student health issue that affects the test book itself (blood, fluids, etc.) or b) contact with any potentially hazardous material.

If test materials are contaminated, the Test Examiner should notify the School Test Coordinator for instructions for handling the contaminated materials since **all** printed testing material must be accounted for. The DTC, STC, or TE is responsible for transcribing the answers into the online system, and then the contaminated test materials must be securely destroyed at the test site by the DTC or STC. The DTC or STC should fill out the Missing Materials section of the Accountability Form to account for the contaminated test materials located under the Materials section of the Portal.

### 8.4 Reporting Test Invalidations

A EOC Assessment should be invalidated only if a student is discovered cheating. Neither a student's behavior during testing nor the judgment of a student's effort during testing can invalidate a student's test.

Cheating is the only time the "Teacher Invalidation" code is used. If a district chooses to use the "Teacher Invalidation" code, the test examiner and the STC must agree that the student cheated. The STC should then notify the DTC. This code invalidates all sessions of the content area.

## Appendix A: Frequently Asked Questions (FAQ)

**Q:** Can students use white boards to write notes?

**A:** While the use of white boards is allowed, it is preferred that students use paper/pencil to write notes. The use of dry erase boards provides a better chance for students to see each other's writing.

**Q:** Can we play music during testing?

**A:** DESE has no rule opposing this, however, it should not be done during the listening section or if students are using text-to-speech.

**Q:** Can students read books after testing?

**A:** This is a district decision.

**Q:** What do I do with a student in the system that will not be testing?

**A:** Remove them from any testing sessions they may be in. As long as the student is not part of any testing session and no one ever logs in, no record is created.

**Q:** What is the cost for each student?

**A:** The district cost is \$1.80 per student for all assessments except for Government and Personal Finance which are free.

**Q:** What are the qualifications to be a Test Examiner?

**A:** The examiner must be a district employee or long-term sub on a district contract. At a minimum, they must meet the qualifications of a paraprofessional.

**Q:** Can student teachers act as Test Examiners?

**A:** No. While student teachers can observe testing, they may not operate as a Test Examiner.

**Q:** Can you take the sessions out of order?

**A:** Yes, school districts have the freedom to arrange the testing sessions in any order they choose. The testing sessions are independent and do not reference each other.

**Q:** Are the practice tests available in Paper Based format?

**A:** Yes, paper versions of the practice tests are available. See section 4.4 of this manual for more information.

**Q:** Besides practice forms, what other tools are there to help prepare students?

**A:** DRC provides Online Tools Training (OTTs) and Test Tutorials.

- OTTs give users the ability to use the tools available in the DRC INSIGHT testing platform on a variety of item types. OTTs can be accessed at <https://wbte.drcedirect.com/MO/portals/mo>.
- Test Tutorials allow users to watch recorded videos that demonstrate the features of DRC INSIGHT and the tools that will be used for the operational assessments. Test Tutorials can be accessed at <https://wbte.drcedirect.com/MO/portals/mo>.

**Q:** A student needs to re-take Algebra I for A+ purposes. Do both scores count for accountability?

**A:** Contact DESE Accountability Data at 573-526-4886 or [accountabilitydata@dese.mo.gov](mailto:accountabilitydata@dese.mo.gov).



## Appendix B: DRC INSIGHT Keyboard Shortcuts and Icons

Keyboard shortcuts are available for navigating through the DRC INSIGHT testing system and answering multiple-choice questions. Shortcuts cannot be used to manipulate Technology Enhanced questions, nor can they be used to manipulate additional tools that may be available, such as the line guide or the calculator. These shortcuts are not intended to be a testing accommodation. **Please NOTE: The following keyboard shortcuts are only meant to support desktop platforms (Windows/Mac) and most Chromebook models – they do not address other devices and/or models students may be using.**

Keyboard Shortcut	Function
<b>Tab</b>	Will move Red Box from one tool to another in forward order ( <b>from left to right</b> ). The Tab focus default on the tool bar applies to Multiple-Choice items only. CR Short/Extended-Input items will have the focus on the CR response area and to get to the pointer you need to click on the pointer tool. Once focus is on the toolbar, then the tabbing feature will work as it does for Multiple-Choice Items.
<b>Shift + tab</b>	Will move Red Box from one tool to another in reverse order ( <b>from right to left</b> ). The Tab focus default on the tool bar applies only to multiple-choice items. CR Short/Extended-Input items will have the focus on the CR response area and to get to the pointer you need to click on the pointer tool. Once focus is on the toolbar, then the tabbing feature will work as it does for Multiple-Choice Items.
<b>Enter</b>	Activates the tool that the tab box is around.
<b>Esc</b>	Will close the active pop-up tool. If user selects ESC while on the tool bar with no active tools, the tab box will move to the pointer.
<b>ABCD, abcd</b>	Selects an answer option on a multiple-choice question. Entering one of the letters fills or un-fills the letter bubble before each answer option. Both uppercase and lowercase letters can be used.
<b>Alt (option) + X</b>	Exits the system from each page that has an Exit button.
<b>Ctrl (control ⌘) + {Left, Right, Up, Down arrows}</b>	Will move the active pop-up tools around on the screen (does not include sticky notes).
<b>Ctrl (control ⌘) + Minus (Numerical Row)</b>	Rotates the active tool 1 degree.
<b>Ctrl (control ⌘) + tab</b>	Switches between multiple active pop-up tools on the screen.

## Appendix B: DRC INSIGHT Keyboard Shortcuts and Icons, continued










Keyboard Shortcut	Function
<b>Up/Down Arrows</b>	Moves cursor up or down through the list of questions on the Test Progress/Review Page. It will also continue to move the cursor up or down the selection list of calculator choices, or formula sheet choices.
<b>Enter</b>	<p>Selects the highlighted test question from the Review/End Test page.</p> <p>Selects Sign In button after Username and Password are entered.</p> <p>Selects Continue from the Student Verification page.</p> <p>Selects the Go To Page number within the quick navigation drop-down arrow.</p>
<b>Alt + Delete</b>	Will clear the Calculator.
<b>"_"</b>	Will work as a shortcut key for subtraction on all Calculators.
<b>"!"</b>	Will work as a shortcut key for factorial on all Scientific/Graphing Calculators.
<b>"("</b>	Will work as a shortcut key for open parenthesis on Scientific/Graphing Calculators.
<b>")"</b>	Will work as a shortcut key for closed parenthesis on Scientific/Graphing Calculators.
<b>"*"</b>	Will work as a shortcut key for Multiply on all Calculators.
<b>"/"</b>	Will work as a shortcut key for Divide on all Calculators.
<b>"@"</b>	Will work as a shortcut key for Square on all Scientific/Graphing Calculators.
<b>"+"</b>	Will work as a shortcut key for Add on all Calculators.
<b>"0-9"</b>	Will work as shortcut keys for numeric entry on all Calculators.
<b>Backspace</b>	Will work as a shortcut key for Backspace on all Calculators.
<b>Delete</b>	Will work as a delete function on all Calculators (will not work on a Mac).
<b>Enter</b>	Will work as an Enter key on all Calculators (this will not work for the graphing tools).
<b>^</b>	Will work as a shortcut to take a number to a specific power on scientific/graphing Calculators.
<b>Ctrl+plus/minus ('+' or '-')</b>	Will work to rotate ruler/protractor one degree.
<b>" ' " (apostrophe)</b>	Will works as a Negate key on the Basic Calculator.

Appendix B: DRC INSIGHT Keyboard Shortcuts and Icons, continued







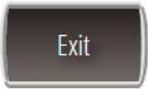
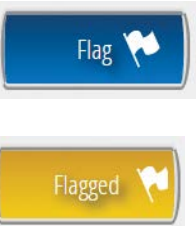
Keyboard Shortcut	Function
F7	Will activate the Audio “tracks” aka Starting point button when Audio is active (on a Mac use <b>FUNC F7</b> ). In addition, <b>ESC</b> will also disable TTS starting points view, along with Enter or space Key if starting point is active.
F8	Will activate the Play/Pause button when Audio is active (on a Mac use <b>FUNC F8</b> ).
F9	Will activate the Stop button when Audio is active (on a Mac use <b>FUNC F9</b> ).
Alt (option) – A	Will activate the Audio Settings Pop-up.
Alt (option) – B	Will activate the Back Button, and move student back a question (for Non-CAT tests).
Alt (option) – N	Will activate the Next button, and move the student forward a question.
Alt (option) – O	Will activate the Options button, Color Chooser selection popup window will open, or close the color chooser pop up.
Alt (option) – R	Activates the Review/End Test button and moves the user to the Review page of the test.
Alt (option) – P	Activates the Pause button and pauses the test.
Alt (option) – F	Activates the flagged button and marks an item as flagged or removes a flag from an item.

Table B.1

## Appendix B: DRC INSIGHT Keyboard Shortcuts and Icons, continued

Tool Icon	Tool Name	Tool Definition
	<b>Pointer</b>	<p>The <b>Pointer</b> tool is the default tool that is active when you begin. It is used to select answers as well as other tools and features within the online assessment.</p> <p>The <b>Pointer</b> will change to a pencil head when moved over a multiple-choice answer bubble. Use it to select your answer.</p> <p>If another tool has been selected, you can return to the <b>Pointer</b> tool mode by clicking on the Pointer tool button. This button is at the far left of the tools row.</p>
	<b>Cross-Off</b>	The <b>Cross-Off</b> tool is used to narrow down the possible answer choices by allowing you to mark answer choices you believe to be incorrect. This tool is only available for multiple-choice items.
	<b>Highlighter</b>	The <b>Highlighter</b> tool is used to highlight important information.
	<b>Sticky Note</b>	The <b>Sticky Note</b> allows you to place a short note almost anywhere within the window that contains a question, passage, or scenario. Use a note to mark a special part or to leave a reminder of some important information in that question, passage, or scenario.
	<b>Magnifier</b>	The <b>Magnifier</b> allows you to enlarge the entire screen. Other tools, including the <b>Line Guide</b> , <b>Cross-Off</b> , <b>Highlighter</b> , and <b>Calculator</b> , can be used when the <b>Magnifier</b> is turned on.
	<b>Line Guide</b>	The <b>Line Guide</b> tool provides a horizontal line that brings the focus to a single line of text. The <b>Line Guide</b> can be used to track a passage or an individual question.
  	<b>Measurement Tools</b>	The <b>Measurement Tools</b> button allows you to access the ruler or protractor, which can be used to measure an object. The ruler can be moved around the screen and can also be rotated.

## Appendix B: DRC INSIGHT Keyboard Shortcuts and Icons, continued

Tool Icon	Tool Name	Tool Definition
	<b>References</b>	The <b>References</b> button allows you to access the reference materials that are available for your test.
	<b>Periodic Table of the Elements</b>	The <b>Periodic Table of Elements</b> button allows you to access an interactive Periodic Table of Elements.
	<b>Calculator</b>	The <b>Calculator</b> tool may be used to assist with calculations necessary to answer questions on the exam. You will be given a Basic or Scientific calculator.
	<b>Graphing Tool</b>	The <b>Graphing Tool</b> is designed to graph functions when solved for the "Y" variable and has the ability to give the corresponding "Y" values for given "X" values.
	<b>Next Button</b> <b>Back Button</b>	<p>The <b>Next</b> and <b>Back</b> buttons are used to navigate between questions on the test. They are also used to move between pages on multi-page questions.</p> <p>Click on the <b>Next</b> button to move forward to the next question or page.</p> <p>Click on the <b>Back</b> button to move backward to the previous question or page.</p>
	<b>Pause and Resume</b>	When the <b>Pause</b> button is clicked, the test will be temporarily stopped. The test cannot be paused for more than 20 minutes. A countdown timer will be displayed showing how much longer the test will be paused. At any time during the countdown, the test can be resumed by clicking on the <b>Resume</b> button.
	<b>Exit</b>	<p>The <b>Exit</b> button appears on the Pause Page. Click on <b>Exit</b> to close the test.</p> <p><b>WARNING:</b> If a student exits a test using this button, the test remains incomplete. The student must log in again to complete the test.</p>
	<b>Flag</b>	<p>Click on the <b>Flag</b> button to mark a test question for review at a later time. When you click on the <b>Flag</b> button, the color of the button will change to yellow to indicate the question is flagged.</p> <p>To unflag a test question, use the <b>Pointer</b> tool to click the button again.</p>

## Appendix B: DRC INSIGHT Keyboard Shortcuts and Icons, continued



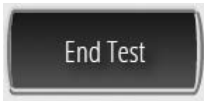



Tool Icon	Tool Name	Tool Definition
	<b>Review/End Test</b>	The <b>Review/End Test</b> button allows you to see all of the test questions you have flagged for review. The Review Page also shows which questions have been answered and which have not.
	<b>Return to Questions</b>	The <b>Return to Questions</b> button appears on the Review Page. Clicking <b>Return to Questions</b> will take the student back to the most recently visited question. The student can then review any questions, and proceed by clicking <b>Review/End Test</b> again.
	<b>End Test</b>	The <b>End Test</b> button appears on the Review Page. Clicking this button will provide a prompt for the student to confirm whether they would like to <b>Return to Review</b> or <b>Submit</b> .
	<b>Submit</b>	The <b>Submit</b> button appears on the window that prompts a student to <b>Return to Review</b> or <b>Submit</b> . Selecting the <b>Submit</b> button will end the exam.
	<b>Return to Review</b>	The <b>Return to Review</b> button appears on the window that prompts a student to <b>Return to Review</b> or <b>Submit</b> . Selecting the <b>Return to Review</b> button will take the student back to the Review Page.
	<b>Go to Question</b>	To quickly navigate to any question, passage, or scenario on the test, click on the down arrow next to the question number in the upper-left corner of the screen. A list of all available test questions and scenarios will appear. Click on the number of the test question, passage, or scenario you want to go to, and that question will appear on the screen. Click on the passage or scenario and you will be taken to the first question that appears with the passage or scenario.

Table B.2


Key Icon	Key Description
<input type="checkbox"/>	Unanswered item
<input checked="" type="checkbox"/>	Answered item
	Flagged item
S	Scenario indicator for Science; example: (S1)
P	Passage indicator for ELA; example: (P1)

Table B.3

## Appendix C: Sample Student Tools/Accommodations Tracking Form

Student Name: \_\_\_\_\_

Grade/Content: \_\_\_\_\_

Test Examiner: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

<b>Universal Tools – Automatic</b>  These tools are available by default and do not need to be marked.	<input type="checkbox"/> Break (Pause)	<input type="checkbox"/> Masking – Online (GLA)
	<input type="checkbox"/> Calculator (Gr. 6–8, EOC)	<input type="checkbox"/> Protractor
	<input type="checkbox"/> Color Contrast – Online (GLA)	<input type="checkbox"/> Read Aloud Test To Self
	<input type="checkbox"/> English Dictionary	<input type="checkbox"/> Reference Sheet
	<input type="checkbox"/> Grammar Handbook	<input type="checkbox"/> Ruler
	<input type="checkbox"/> Graphing Tool	<input type="checkbox"/> Scratch Paper (Sticky Notes)
	<input type="checkbox"/> Highlighter	<input type="checkbox"/> Strikethrough
	<input type="checkbox"/> Line Guide/Line Reader	<input type="checkbox"/> Thesaurus
	<input type="checkbox"/> Magnification	<input type="checkbox"/> Writing Tools
	<input type="checkbox"/> Mark For Review	

<b>Universal Tools – To Be Marked</b>  These tools need to be marked 48 hours prior to testing in order to use them.	<input type="checkbox"/> Bilingual Dictionary	<input type="checkbox"/> Non-Accomm. Paper Based
	<input type="checkbox"/> Color Contrast – Online (EOC)	<input type="checkbox"/> *Read Aloud – Asst. Tech
	<input type="checkbox"/> Color Contrast – Paper	<input type="checkbox"/> *Read Aloud – Human Reader
	<input type="checkbox"/> Color Overlay	<input type="checkbox"/> *Read Aloud – Native Language
	<input type="checkbox"/> Magnification – Asst. Tech	<input type="checkbox"/> *Read Aloud – Text-To-Speech
	<input type="checkbox"/> Masking – Online (EOC)	<input type="checkbox"/> Scribe
	<input type="checkbox"/> Masking – Paper	<input type="checkbox"/> Separate Setting
		<input type="checkbox"/> Translation

<b>Accommodations</b>  Accommodations need to be marked 48 hours prior to testing in order to use them.	<input type="checkbox"/> Abacus	<input type="checkbox"/> **Read Aloud – Asst. Tech
	<input type="checkbox"/> Alternate Response Options	<input type="checkbox"/> **Read Aloud – Human Reader
	<input type="checkbox"/> Braille	<input type="checkbox"/> **Read Aloud – Native Language
	<input type="checkbox"/> Calculator (Gr. 3–5)	<input type="checkbox"/> **Read Aloud – Text-To-Speech
	<input type="checkbox"/> Closed Captioning	<input type="checkbox"/> Sign Language
	<input type="checkbox"/> Large Print	<input type="checkbox"/> Specialized Calculator
	<input type="checkbox"/> Multiplication Table (Math)	<input type="checkbox"/> Speech-To-Text – Asst. Tech
	<input type="checkbox"/> Paper Based Assessment	

\*Without ELA Reading Passages

\*\*With ELA Reading Passages



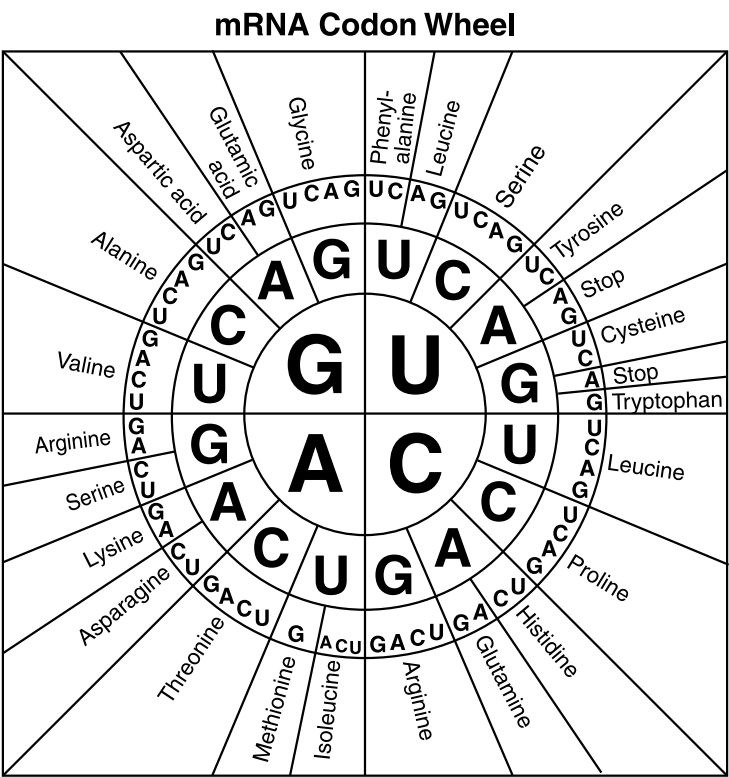
## Missouri EOC Mathematics Reference Sheet

General Equations	General Formulas	
$Ax + By = C$	$m = \frac{y_2 - y_1}{x_2 - x_1}$	$a_n = a_1 + (n-1)d$
$y = mx + b$	${}_nP_r = \frac{n!}{(n-r)!}$	$a_1 = 1^{\text{st}} \text{ term, } a_n = a_{n-1} + d$
$y - y_1 = m(x - x_1)$	${}_nC_r = \frac{n!}{(n-r)!r!}$	$g_n = g_1 r^{n-1}$
$y = a(x - h)^2 + k$	$\sin A = \frac{\text{opposite}}{\text{hypotenuse}}$	$g_1 = 1^{\text{st}} \text{ term, } g_n = r g_{n-1}$
$y = ax^2 + bx + c$	$\cos A = \frac{\text{adjacent}}{\text{hypotenuse}}$	$I = prt$
$y = ab^x$	$\tan A = \frac{\text{opposite}}{\text{adjacent}}$	$A = P(1 + \frac{r}{n})^{nt}$
$y = \log_b x$	$a^2 + b^2 = c^2$	$A = Pe^{rt}$
$(x - h)^2 + (y - k)^2 = r^2$	$d = rt$	$D = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
		$(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2})$
		$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
	Area/Volume	
	$\text{Area} = \frac{1}{2}bh$	$\text{Volume} = Bh$
	$\text{Area} = \frac{1}{2}h(b_1 + b_2)$	$\text{Volume} = \frac{1}{3}Bh$
	$\text{Area} = \pi r^2$	$\text{Volume} = \frac{4}{3}\pi r^3$
	$\text{Circumference} = \pi d$	$\text{Surface Area} = 4\pi r^2$

E.1 Periodic Table of Elements

Period		Group																	
		1	2											13	14	15	16	17	18
1	1	1 H 1.003 hydrogen																	2 He 4.003 helium
2	2	3 Li 6.94 lithium	4 Be 9.012 beryllium											5 B 10.81 boron	6 C 12.01 carbon	7 N 14.01 nitrogen	8 O 16.00 oxygen	9 F 19.00 fluorine	10 Ne 20.18 neon
3	3	11 Na 22.99 sodium	12 Mg 24.31 magnesium	3	4	5	6	7	8	9	10	11	12	13 Al 26.98 aluminum	14 Si 28.09 silicon	15 P 30.97 phosphorus	16 S 32.06 sulfur	17 Cl 35.45 chlorine	18 Ar 39.95 argon
4	4	19 K 39.10 potassium	20 Ca 40.08 calcium	21 Sc 44.96 scandium	22 Ti 47.87 titanium	23 V 50.94 vanadium	24 Cr 52.00 chromium	25 Mn 54.94 manganese	26 Fe 55.85 iron	27 Co 58.93 cobalt	28 Ni 58.69 nickel	29 Cu 63.55 copper	30 Zn 65.38 zinc	31 Ga 69.72 gallium	32 Ge 72.63 germanium	33 As 74.92 arsenic	34 Se 78.97 selenium	35 Br 79.90 bromine	36 Kr 83.80 krypton
5	5	37 Rb 85.47 rubidium	38 Sr 87.62 strontium	39 Y 88.91 yttrium	40 Zr 91.22 zirconium	41 Nb 92.91 niobium	42 Mo 95.95 molybdenum	43 Tc [97] technetium	44 Ru 101.1 ruthenium	45 Rh 102.9 rhodium	46 Pd 106.4 palladium	47 Ag 107.9 silver	48 Cd 112.4 cadmium	49 In 114.8 indium	50 Sn 118.7 tin	51 Sb 121.8 antimony	52 Te 127.6 tellurium	53 I 126.9 iodine	54 Xe 131.3 xenon
6	6	55 Cs 132.9 cesium	56 Ba 137.3 barium	57-71 La-Lu *	72 Hf 178.5 hafnium	73 Ta 180.9 tantalum	74 W 183.8 tungsten	75 Re 186.2 rhenium	76 Os 190.2 osmium	77 Ir 192.2 iridium	78 Pt 195.1 platinum	79 Au 197.0 gold	80 Hg 200.6 mercury	81 Tl 204.4 thallium	82 Pb 207.2 lead	83 Bi 209.0 bismuth	84 Po [209] polonium	85 At [210] astatine	86 Rn [222] radon
7	7	87 Fr [223] francium	88 Ra [226] radium	89-103 Ac-Lr **	104 Rf [267] rutherfordium	105 Db [270] dubnium	106 Sg [271] seaborgium	107 Bh [270] bohrium	108 Hs [277] hassium	109 Mt [276] meitnerium	110 Ds [281] darmstadtium	111 Rg [282] roentgenium	112 Cn [285] copernicium	113 Nh [285] nihonium	114 Fl [289] flerovium	115 Mc [288] moscovium	116 Lv [293] livermorium	117 Ts [294] tennessine	118 Og [294] oganesson
		57 La 138.9 lanthanum	58 Ce 140.1 cerium	59 Pr 140.9 praseodymium	60 Nd 144.2 neodymium	61 Pm [145] promethium	62 Sm 150.4 samarium	63 Eu 152.0 europium	64 Gd 157.3 gadolinium	65 Tb 158.9 terbium	66 Dy 162.5 dysprosium	67 Ho 164.9 holmium	68 Er 167.3 erbium	69 Tm 168.9 thulium	70 Yb 173.1 ytterbium	71 Lu 175.0 lutetium			
		89 Ac [227] actinium	90 Th 232.0 thorium	91 Pa 231.0 protactinium	92 U 238.0 uranium	93 Np [237] neptunium	94 Pu [244] plutonium	95 Am [243] americium	96 Cm [247] curium	97 Bk [247] berkelium	98 Cf [251] californium	99 Es [252] einsteinium	100 Fm [257] fermium	101 Md [258] mendelevium	102 No [259] nobelium	103 Lr [262] lawrencium			

E.2 mRNA Codon Wheel



mRNA Codon Table

Base 1	Base 2				Base 3
	U	C	A	G	
U	Phenylalanine	Serine	Tyrosine	Cysteine	U
	Phenylalanine	Serine	Tyrosine	Cysteine	C
	Leucine	Serine	Stop	Stop	A
	Leucine	Serine	Stop	Tryptophan	G
C	Leucine	Proline	Histidine	Arginine	U
	Leucine	Proline	Histidine	Arginine	C
	Leucine	Proline	Glutamine	Arginine	A
	Leucine	Proline	Glutamine	Arginine	G
A	Isoleucine	Threonine	Asparagine	Serine	U
	Isoleucine	Threonine	Asparagine	Serine	C
	Isoleucine	Threonine	Lysine	Arginine	A
	Methionine/Start	Threonine	Lysine	Arginine	G
G	Valine	Alanine	Aspartic Acid	Glycine	U
	Valine	Alanine	Aspartic Acid	Glycine	C
	Valine	Alanine	Glutamic Acid	Glycine	A
	Valine	Alanine	Glutamic Acid	Glycine	G

## Appendix F: ELA Writer's Checklists

### Directions to the Student

For this test you will compose a response to a writing prompt. First, read the prompt. Using paper given to you, spend a short amount of time on prewriting activities (such as brainstorming, listing, free writing, clustering, mapping, or drawing).

After you finish your prewriting activity, compose your response in the space provided on screen. Look back at your prewriting activity for ideas. You may use a standard dictionary, thesaurus, or grammar handbook to check your paper for correctness. Please refer to the writer's checklist as you are writing your response to the prompt.

### Writer's Checklist

- My essay has an effective beginning, middle, and end.
- My essay flows smoothly from one idea to another.
- My essay contains a strong controlling idea that stays on topic.
- My essay includes specific and relevant details, reasons, and/or examples.
- My essay uses precise and vivid language.
- My essay contains sentences that are clear and varied in structure.
- My essay includes correct grammar, usage, punctuation, capitalization, and spelling.
- My essay effectively blends at least two genres of writing (choose from narrative, argumentative, and/or expository).
- My essay integrates material from both sources.





# *Examiner's Manual*

## ***End-of-Course Assessments***